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"Flower Seed

Catalog No. 38
June, 1940

MARY ELLEN

New Xmas Snap
(Yoder)

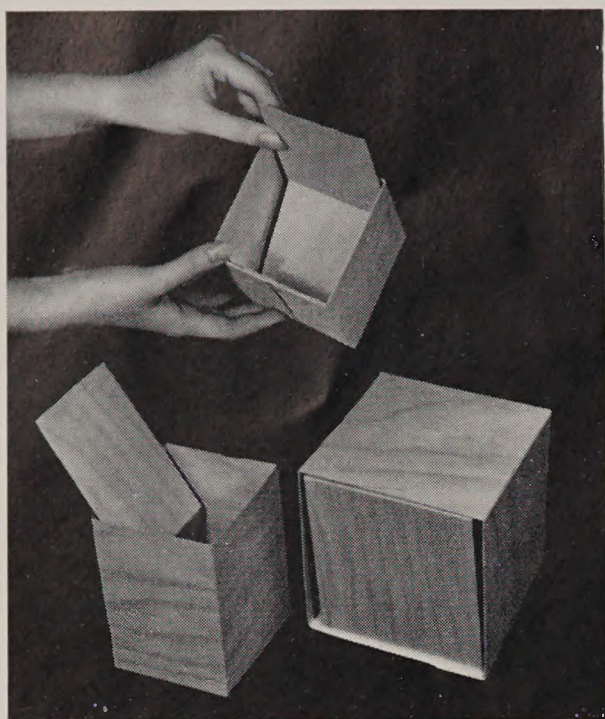
Our trials the past winter showed this to be the most nearly perfect of all forcing Snaps. Quite early, long-stemmed, no grass, and a first rate color. \$2.00 per packet.

Geo. J. Ball

I N C.

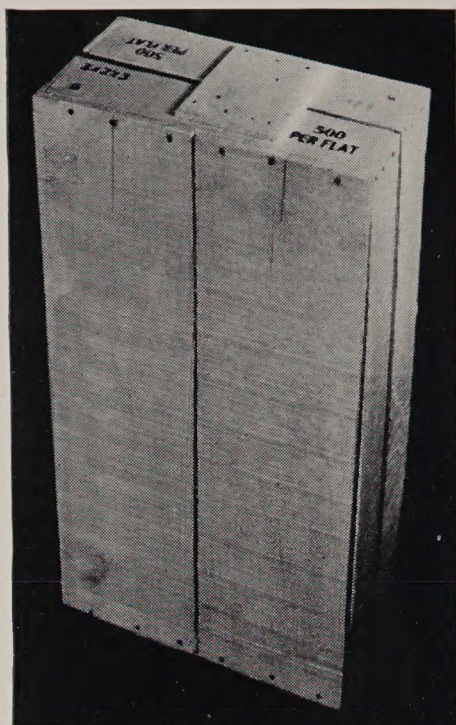
WEST CHICAGO
ILLINOIS

Those PLANT BANDS



Last season we introduced plant bands with bottoms in three sizes which are pictured at the left. We weren't exactly surprised when they "went over with a bang!" The time is right to try them for your perennials.

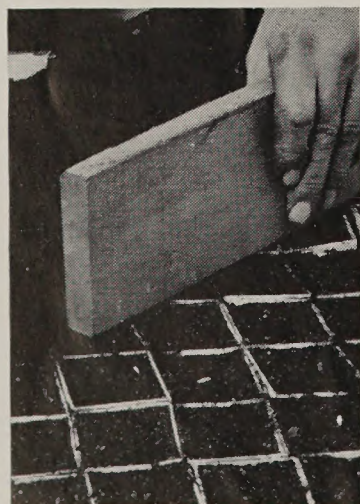
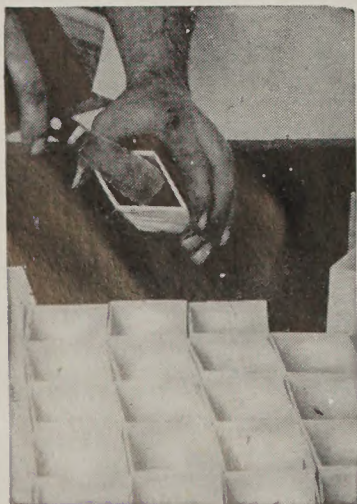
The same box we use for shipping the plant bands to you will serve as a seed flat! Photo at the right shows 1000 plant bands, size 2x2x3, packed in two flats ready for shipment.



THE SUCCESSFUL EXPERIENCE

of growers everywhere with these very practical plant bands makes us proud that we introduced them. Our second season found us selling carload after carload. Largely used for bedding plants and whether you carry your hardy perennials over into fall or spring, one trial of these plant bands will prove them a necessity. We suggest that you order early to allow for freight delivery which on most shipments is much more economical, but slower. Write for samples.

See how easily and quickly plant bands are opened and filled with soil! The plant growing in the small band shows the benefit of uniform moisture; another strong advantage of plant bands.



SIZES, PRICES AND SHIPPING WEIGHTS

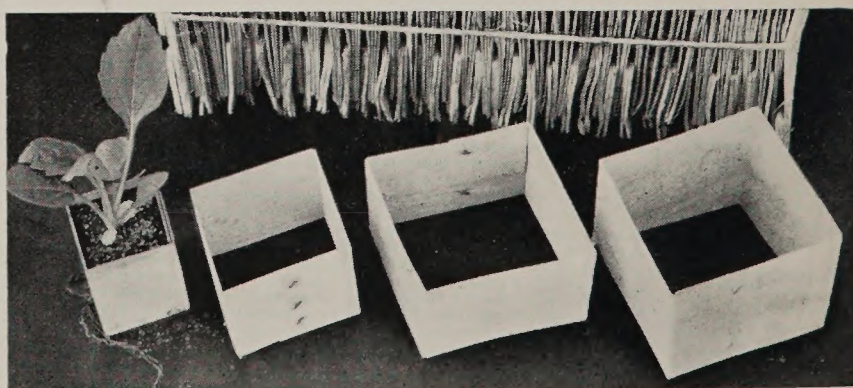
Prices given are f.o.b. our Warehouse, West Chicago.
Wt. per 1000

per 1000			per 1000		
$1\frac{3}{4} \times 1\frac{3}{4} \times 2\frac{1}{2}$			$3 \times 3 \times 6$		
500.....	\$1.30		500.....	\$2.35	
1000.....	2.40	19 lbs.	1000.....	4.60	66 lbs.
$2 \times 2 \times 3$			$4 \times 4 \times 6$		
500.....	\$1.40		500.....	\$3.05	
1000.....	2.60	21 lbs.	1000.....	6.05	94 lbs.
$2\frac{1}{2} \times 2\frac{1}{2} \times 3$			$6 \times 6 \times 6$		
500.....	\$1.45		500.....	\$5.45	
1000.....	2.75	33 lbs.	1000.....	10.80	170 lbs.
$3 \times 3 \times 3$			The Following Sizes Only Come With Bottoms		
500.....	\$1.50				
1000.....	2.85	38 lbs.			
$3 \times 3 \times 4$			$4 \times 4 \times 4$		
500.....	\$1.65		500.....	\$3.05	
1000.....	3.10	44 lbs.	1000.....	6.05	68 lbs.
$4 \times 4 \times 3$			$4 \times 4 \times 6$		
500.....	\$1.65		500.....	\$4.15	
1000.....	3.10	45 lbs.	1000.....	8.20	98 lbs.
$4 \times 4 \times 4$			$6 \times 6 \times 6$		
500.....	\$1.85		500.....	\$8.10	
1000.....	3.55	56 lbs.	1000.....	16.10	190 lbs.

Quantity discount of 5% is allowed on orders of 25,000 made up of various sizes. If interested in larger quantities, write us.

Sizes illustrated above in same order top to bottom as price column.

We are exclusive selling agents for these Bands east of Rocky Mountains, and stock them at West Chicago from where shipments are made. All Canadian orders are handled exclusively for us by Dale Estate, Brampton, Ontario, to whom orders should be sent.



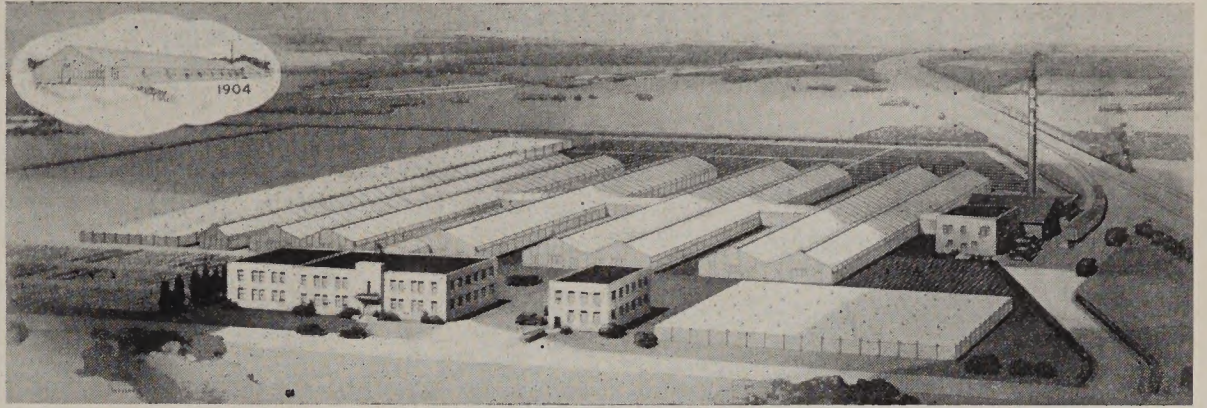
"Flower Seeds for Florists"

Geo. J. Ball
INC.

Catalog No. 38, June, 1940

1940-41 ?

As these lines are written, the European situation is very grave. Whether we become involved directly or indirectly, its spread to our shores and the disruption of our life is highly improbable. Important to believe that business in our line will continue active as ever—might even increase, for in times of great stress and uncertainty, the need for our product becomes greatest. This should make it perfectly safe to prepare well for the coming season. As usual, a few shortages, especially in fine pot plant seed will develop, but at this time, our supplies in the 1,600 varieties we stock is almost 100% complete. However, we suggest ordering necessary seed supplies for the coming season without delay.



Geo. J. Ball.

NOTE—CASH DISCOUNT. When cash is enclosed, 5% discount is allowed on all orders from \$1.00 to \$25.00. On this amount and over, 8% is allowed. **No cash discount allowed on Cyclamen seed, plant bands and Mineral Maid Outfits.** When not deducted, we enclose with order our credit slip for amount due you.

We Pay Parcel Post Charges and Insurance to any post office in the United States or Canada on all orders at prices quoted in this catalog. This simplifies figuring the cost of your order.

If Unknown to Us, or if overdue accounts are standing (60 days), cash must be enclosed with orders unless other arrangements are agreed to in advance.

Small Orders Are Welcomed gladly and receive our well known service. In return, we suggest cash be enclosed with such orders.

Air Mail Delivery. Allow 8c per ounce for seeds ordered, which will allow for wrapping material.

Prices in this catalog are subject to change without notice.

No 1/2 Tr. Pkts. supplied except where noted.

Our Business and prices are exclusively for florists. We issue no retail catalog. This catalog is not for home gardeners.

No Commission Boxes. Our seed is not put in retail packets.

Crop Failures. All items in this catalog are offered subject to crop shortages or failures.

No Crop Guarantee. For reasons that should be clear to any experienced planter, seed crops cannot be guaranteed. We use every precaution to supply only seeds of the highest quality in every respect, and we will promptly refund the price paid for same should they prove unsatisfactory under reasonable care. All seed is sold under the seedsmen's disclaimer as follows:

Disclaimer. We, Geo. J. Ball, Inc., give no warranty expressed or implied, as to description, quality, productiveness or any other matter of any seeds we sell, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms, they are at once to be returned and the money paid for same will be refunded promptly.

NOTE: Our seed cannot be bought from dealers or agents, EXCEPT IN OUR PRINTED PACKETS OR CONTAINERS. Avoid uncertainty and possible loss by ordering direct from us, or through our regular representatives who sell in our containers only.

Important. Make all checks or money orders payable to **Geo. J. Ball, Inc., West Chicago, Illinois.**

Our Address is WEST CHICAGO, ILLINOIS. We are located on Highways U.S. 330 or Illinois 64—and on Chicago and Northwestern Ry. You are always welcome here.

INDEX

Achillea	18	Catananche	19	Freesia	21	Lupinus, Annual	17	Saponaria, Perennial	24
Aconitum	18	Centaurea, Annual	16	Gaillardia, Perennial	21	Perennial	22	Scabiosa, Perennial	24
Aloe	16	Perennial	19	Geum	21	Lychnis	22	Schizanthus	2, 15
Alyssum, Perennial	18	Cerastium	19	Grevillea	16	Marigold	17	Sedum	24
Anchusa, Perennial	18	Cheiranthus	19	Gypsophila, Annual	17	Matricaria	23	Sempervivum	24
Anthemis	18	Chrysanthemum,	19	Perennial	21	Mignonette	17	Snapdragon	2, 4-5
Aquilegia	18	Perennial	19	Helianthemum	21	Myosotis, Annual	2, 17	Spergula	24
Arabis	18	Cineraria	2, 12	Hesperis	21	Perennial	23	Statice, Annual	17
Armeria	19	Coreopsis	19	Heuchera	21	Nasturtium	17	Perennial	24
Asclepias	19	Cyclamen	16	Hollyhock, Perennial	22	Nepeta	23	Stocks	6-7
Asparagus, Annual	16	Daisy	19	Iberis	22	Pansy	2, 3	Stokesia	24
Perennial	19	Delphinium, Perennial	2, 20	Impatiens	17	Phlox, Perennial	23	Sweet Pea, Early	2, 8
Aster, Perennial	19	Dianthus, Perennial	20	Larkspur	11	Physalis	23	Sweet Pea, Spring	9
Aubretia	19	Dictamnus	20	Lathyrus	22	Physostegia	23	Sweet Pea, Late	9
Baptisia	19	Didiscus	16	Lavandula	22	Plant Bands	Cover	Thalictrum	24
Begonia	2, 14	Dielytra	20	Leontopodium	22	Platycodon	23	Tritoma	24
Bellis	19	Digitalis	21	Liatriis	22	Poppy, Perennial	23	Trollius	24
Boltonia	19	Doronicum	21	Lilium	22	Primula, Annual	2, 13	Tunica	24
Browallia	16	Dracaena	16	Linum	22	Perennial	23	Valeriana	24
Calceolaria	2, 15	Echinops	21	Lobelia, Perennial	22	Pyrethrum	23	Venidium	17
Calendula	10	Eremurus	21	Lunaria	22	Rudbeckia, Perennial	24	Veronica	24
Campanula, Perennial	19	Eryngium	21			Salvia, Perennial	24	Violas	24
Candytuft	16	Euphorbia, Perennial	21					Wallflower	17
Carnation, Perennial	19	Exacum	16						

VARIETIES OF SPECIAL MERIT

On this page, we draw your attention to varieties that are found quite generally satisfactory. Tho a few are not new, their general acceptance and our experience with them, justified us, we feel, in giving them this special recommendation.

Begonia Red and Pink Pearl. These two European varieties are the result of crossing two distinct varieties; first generation seed comes uniformly true to habit and color. These two varieties are generally considered the finest in their respective colors for uniformly dwarf free flowering habit and bright colors. Choice for pot plants. We continue to have a limited supply of the originator's seed at, each, \$1.00 per pkt.

Calceolaria Multiflora Nana. Dwarf habit, medium size flowers of especially bright attractive colors describes this, the most popular selling type. This is another European item that we are fairly well supplied with and that might become scarce before the season is over. As this is written, a trial of our stock on hand is in full flower, and is the most attractively colored strain we have ever offered. This is due to our European trip in '38 during which it was found. Tr. pkt., \$1.00; 1/128 oz., \$2.50; 1/64 oz., \$4.00.

Calceolaria Flower Cloud. Another popular European market growers' variety. Somewhat taller than multiflora nana and between that variety and a Grandiflora in size. Flowers very freely produced. Due to its Rugosa parentage, foliage is somewhat elastic—not so easily cracked in shipping. Two to three plants of this in a 5 in. pot makes an attractive specimen. Tr. pkt., \$1.00; 1/128 oz., \$3.75.

Cineraria Cremers. The most acceptable American type of Cineraria. Medium size flowers produced in extra large showy heads. Another valuable feature of this strain is the reduced size of the leaves, making it possible to space it closer without them. Tr. pkt., \$1.50; 1/64 oz., \$2.25; 1/32 oz., \$4.00; 1/16 oz., \$7.50.

Cineraria Berlin Market (Weissensee Strain). Larger flowered and by some considered more attractive than Cremers. While the majority of your customers will select Cremers, for variety some of this larger flower type should be grown. The Weissensee strain is especially selected for the more attractive white eye flowers. Note cut of both above on page 12. Tr. pkt., \$1.00; 1/64 oz., \$1.60; 1/32 oz., \$2.75.

Delphinium Giant Pacific Hybrids (Vetterle and Reinelt). This is unquestionably the best commercial strain of Hybrid Delphinium available. Selected for greater size, semi-double and unusually long stately flower spikes. New crop seed ready about July 1. We offer all the best available colors on page 20.

Myosotis Ball's Early. If sown late August, this early flowering strain will get into flower by November and continue producing freely all winter. The standard variety Blue Bird from which Ball's Early was selected will not flower with the same start until February. Retail growers can hardly afford to be without some of this easily grown sentimental blue flower. Likes the same light cool house that Pansies do well in. Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$2.85.

Pansy Ball Winter Flowering. Since the original Don strain was sent out, we have made, annually, selections on it to improve the colors, size, and stem length. Every season our strain has shown some improvement on these important points. Pansies are becoming increasingly popular for winter cut flowers and this has been largely brought about by this outstandingly long-stemmed strain. Sow July, grow cool, and they will get up 2 to 3 ft. and must be supported. 1/2 tr. pkt., 60c; Liberal tr. pkt., \$1.00; 1/8 oz., \$2.00; 1/4 oz., \$3.50.

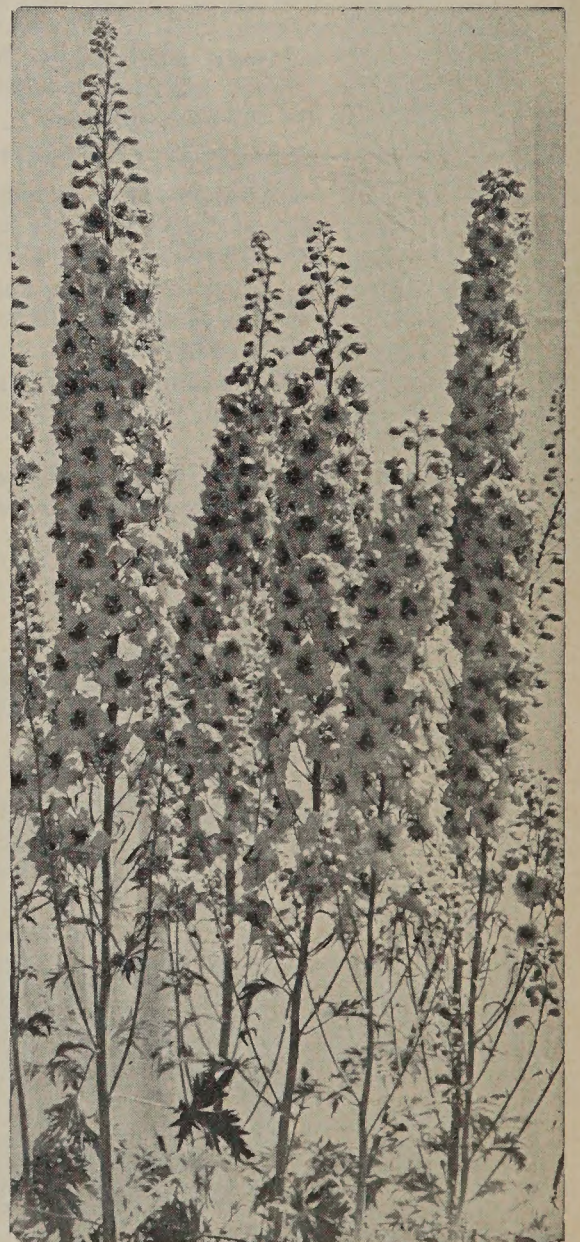
Malacoides Primula "Riverside". Rose pink with enuf salmon tinge to make it the most attractive Baby Primula on the list. Sow anytime from June to January. Don't ever let them get dry and three in a pot or 6 in. pan will make specimens. Tr. pkt., \$1.00; 1/64 oz., \$1.75; 1/32 oz., \$2.75.

New Snapdragon Mary Ellen (J. S. Yoder). According to our trial of it the past winter, this is the most nearly perfect variety we have ever seen. Early flowering, no grassy growth, extra long stemmed, quite large flowered and a choice light rose pink color. Our trial of 150 plants was 100% true and not a point could be noted against it. Tr. pkt., \$2.00; 3 pkts., \$5.00.

Snapdragon Daybreak Rust Resistant. Three years back we had a bench of this that rusted out completely except one plant that remained entirely resistant. This plant has developed into a strain that has been entirely free of rust under our conditions. Fairly early flowering and a good light rose pink. Tr. pkt., \$1.00.

Winter Sweet Pea "Ball Rose Queen". Up to now, Laddie has been our choice for light rose pink in early Peas. Ball Rose Queen is fully 1/4 stronger in growth, 1/3 larger flowered, brighter rose color, and some longer stemmed. We strongly urge, especially market growers, to check the above claim by planting a trial of it alongside any other rose pink. 1/2 oz. only until Aug. 1; 1/2 oz., 35c; 1 oz., 50c; 4 ozs., \$1.50. 1 lb., \$5.00.

Schizanthus Ball Brilliant Blend. The best all round mixture we are capable of combining, especially for mid-winter cutting for which sow August 1. Must be pot bound or in shallow soil to harden the growth into flower. Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.15.



Type of the new Giant Pacific Hybrid Delphinium (V. & R.)

FLORISTS' PANSIES

(25,000 seeds per ounce)

The attractive value of a small bed of Pansies for winter use shouldn't be overlooked by any retail grower. Sow early for this purpose, and plant in a cool house and well enriched soil soon as summer heat is over. While Ball Winter Flowering is the long-stemmed, tall strain, the colors in our Ball Giant Mixture will be found even more attractive and with fairly good stems. Growers who specialize in wintered over plants for spring sales sow around Aug. 15-20 in our latitude. Important to get them started early enuf to become well established and developed to the point where they are ready to flower before they are put to sleep by winter. It takes 2½ to 3 months of growing weather to do this, so the time to sow can be figured out. About the details of sowing, every grower's method differs some. But it is fundamentally important to use well lightened porous soil in any stage of their growth. A seed bed should be perfectly level and thoroly soaked before sowing. We have repeatedly had a slightly higher germination in not covering seed until well swelled—ready to sprout; then covering barely enuf to hide it. But it is important to keep uncovered seed uniformly moist. The germs of damping off seem to be in the air as well as soil. This loss can only be overcome by hardening the seedlings to resist it thru as much exposure to air as possible and keeping the soil dry as possible.

NOTE! While some good Pansy seed is produced in America, European specialists have exceptional advantages in the production of this seed. While every possible effort will be made to get this thru, some delay in deliveries must be expected. Should it become necessary to use American grown seed, some advance in prices will be necessary. Along with this, however, will go earlier delivery. We will keep you posted on this situation thru our trade paper advertising. Prices on bulk lots subject to change without notice.

***Ball Giant Mixture.** Our well-known, excellent all-purpose mixture. This mixture is based on the best European strain of Roggli Giants we have been able to find. To it is added Swiss blue, Coronation Gold, and Swiss white in proportions to give the necessary balance of all colors. Our best all-purpose mixture. Tr. pkt., 40c; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$22.00.

Ball Giant Mixture Dwarf Strain. Distinctly dwarf and full of attractive Roggli colors. A choice dwarf mixture. Tr. pkt., 50c; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$21.00.

Roggli Giant Mixture. A fine bedding strain with mixture predominating in rich red and bronze shades. Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.50; 1 oz., \$4.50.

***Ball Winter Flowering.** This is our own development thru single plant selections on the original Don Pansy. We have greatly improved it in size and coloring and some in stem and vigor of growth. If sown about Aug. 1, grown in enriched light soil cool house 45-48° nights, Ball Winter Flowering Pansies will get up 3-4 ft. and should be supported accordingly. ½ tr. pkt., 60c; Liberal tr. pkt., \$1.00; ⅛ oz., \$2.00; ¼ oz., \$3.50.

Dwarf Geneva Giants (New). A fine domestic Swiss strain. Our trials show it uniformly dwarf and with good colors and flower size. Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$2.50; 1 oz., \$7.00.

Following two varieties originated by Carl Engelmann; Saffron Walden, England, and seed we supply is grown by him.

Engelmann Giant Mixture. A splendid mixture of real Giants in a full range of good Pansy colors. In size and colors, quite outstanding. We offer the originator's seed. Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

Engelmann's Special. Distinctly dwarf 5-blotched strain. Rich coloring and compact habit. Originator's seed. Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

***Maple Leaf Giants.** Extra large flowered mixture of Giants. Good stems and extra heavy growth. Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

***Canadian Giants.** A select Canadian stock of Maple Leaf Giants that it improves some in size. Tr. pkt., 75c; ⅛ oz., \$1.30; ¼ oz., \$2.50; 1 oz., \$9.00.



The visitors shown above are inspecting our extensive annual Pansy trials. All fine strains available are lined up here for comparison.

Steele's Jumbo Mixture. Extra large flowered strain of Giants; strong growth, and long stem. Tr. pkt., 75c; ⅛ oz., \$1.75; ¼ oz., \$3.25; ½ oz., \$6.25; 1 oz., \$12.00.

Improved Swiss Giants. Choice colors combine with nice size and stem to make this well-known strain excellent for all purposes. Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Donovan's Strain. As it checks out in our trials, this is a compact, fairly large flowered strain of attractive colors. A popular strain for bedding. Tr. pkt., 50c; ¼ oz., \$1.40; 1 oz., \$5.00.

Orchid Flowered. (originator's seed) An attractively frilled petalled strain with many original shades of orchid, mauve, and primrose. Tr. pkt., 75c; ⅛ oz., \$1.75.

SWISS GIANTS IN SEPARATE COLORS

***Coronation Gold.** The best true golden yellow. Tr. pkt., 50c; ⅛ oz., 85c; ¼ oz., \$1.50; 1 oz., \$5.00.

Fire Beacon. Bright wallflower-red with touch of orange. Tr. pkt., 50c; ¼ oz., \$2.25; 1 oz., \$8.00.

Alpenglow. Rich garnet red. Tr. pkt., 50c; ¼ oz., \$1.75; 1 oz., \$6.00.

Rhinegold. Large yellow with dark center. Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Lake of Thun. Fairly deep blue with dark center. Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.75; 1 oz., \$5.00.

Mt. Blanc. Best white in the Swiss Giant class. Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$6.50.

SMALLER BEDDING VARIETIES

***Brightness.** Small flowered dwarf. White flowers with large, attractively contrasting dark blue center. Distinctly fine small bedding Pansy. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Golden Queen. Clear yellow with some markings.

Lord Beaconsfield. Standard bedding blue with lighter shaded edge.

Snow Queen. Small, clear paper white.
Each: Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

***Baby Delight.** Extra bright, early flowering and fringed blue that shades lighter toward the edges. Quite outstanding for its attractive, light blue effect. Tr. pkt., 50c; ¼ oz., \$1.25.

WINTER SNAPS

We find, both in the selling of seed and in our cut flower marketing experience, that the business in Snaps is increasing. Our cost accounting of all crops we grow also generally points to better average returns on this crop than on most others. We believe the annual improvement in varieties contributes to this situation. We might occasionally get a new one that doesn't click as well for us as with the originator, but generally, every one marks up a distinct advance.

Greenhouse growing and selling this seed is one of our leading specialties. Along with this goes the careful testing of varieties which we did in a most complete way the past winter, devoting several large houses to a trial of all winter varieties available. This showed a wide variation in earliness. We also found considerable variation in this respect between mid-winter and spring flowering crops. Schumann's Lavender sown early July didn't flower in our trials until late Feb. while Windmill's Lilac was a month earlier. In a late planting that flowered in May, this was reversed. Interesting too was the half dozen varieties that flowered a month to 6 weeks earlier than the main lot. This comparison, we feel, is dependable and important for the value of a month earlier in flowering is easily figured. The early ones were White Wonder, Rose Pink Cheviot, Xmas Cheer, Mary Ellen (New), Radiance, and Early Sunlite. The very latest among the early sown trials were: Klondike, New Cincinnati, Snow White, Bertha Baur, Coates Yellow, Ideal, Lucky Strike, Orchid, Peggy Schumann, Schumann's Lavender, Terry's Surprise, and Westover's Fringed White. We can at least safely say that there is fully 6 weeks difference in flowering between these two classes.

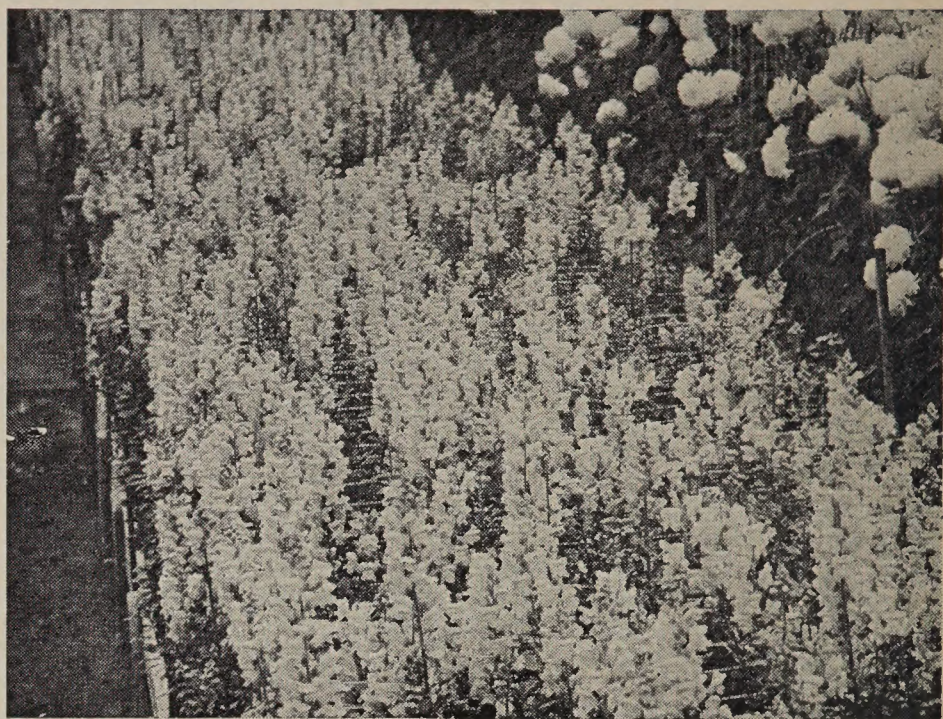
12 BEST MID-WINTER VARIETIES

Because of varying growing conditions, seasons, and market demands, determining the best varieties is necessarily somewhat uncertain. However, in doing so, we have not only considered our own experience and trials but the demand from all sections as well. We clearly find the following belong under this heading.

Mary Ellen. (Illustrated in full color on front cover). (New). While we hesitate putting a new variety under this heading, our trial of it the past winter convinces us that it belongs here. We have failed to find any weak points in this variety. Early July sowing flowered freely for Xmas on long heavy stems. No grassy growth. Color light rose pink about that of Daybreak. Flowers quite large, ideally spaced on the stem, and with no tendency to shatter. Our trial was on a raised and a ground bed and this exactly describes it both ways. Tr. pkt., \$2.00; 3 pkts., \$5.00.

White Wonder. Not an extra strong, long stemmed grower, but plenty long under favorable growing conditions. Flowers freely produced, pure paper white, and fairly well placed on the stem. Flowers nicely for Christmas from a June sowing. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50.

Ethel. While Klondike Supreme wins out with us for spring flowering, Ethel is easily the best for mid-winter because of its earliness and better winter color. Tr. pkt., \$1.50; 3 pkts., \$4.00; 5 pkts., \$6.50.



Seeds sown July 5 gave these Snapdragon blooms December 12. This was done by Frank Volz, Cincinnati. About Chicago sowing must be made earlier to get these results. Our great variation in climate makes it necessary to make allowances accordingly in accepting sowing dates.

Glorious. Might be described as a dark Afterglow. Its deep bronze takes on a scarlet sheen that makes it a strong outstanding color. Habit of Afterglow. Flowers Feb. 1 from an early summer sowing. Tr. pkts., \$1.50; 3 pkts., \$4.00.

Cheviot Maid Reselected. We annually make selections on this valuable rose pink. This maintains our stock as good as it is possible to be. The standard early rose pink. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Christmas Cheer (Windmill). This is among the extra earlies; comes 100% true with us, flowers well placed and the color excellent. No grassy growth. Could well be called Christmas Perfection. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

Lilac (Windmill). Our trials clearly prove this the earliest lavender. Color is brightened with lilac shading. True to color, well placed flowers, and no grassy growth. Tr. pkt., \$2.00; 3 pkts., \$5.00; 5 pkts., \$7.50.

Ceylon Court (dark). While not quite so dark or early as Ethel, this old timer holds its own and continues extensively called for. Tr. pkt., \$1.00.

Afterglow. Continues the best fairly dark bronze. Flowers Feb. 1 from a June sowing with us. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Suntan. Quite early flowering bronze or tan color that many prefer to Afterglow because of earlier and freer flowering. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Early Sunlite. Selected by us from New Deal for longer stem. Attractive light bronze. Free flowering and extra early. Tr. pkts., \$1.00; 3 pkts., \$2.50.

New Cincinnati. In several ways, this is a fine rose pink. Color, medium light—about midway between Rose Queen and the new Mary Ellen. A choice shade. Large flowered, long stemmed, fairly early. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

Ball Forcing Mixture. A formula mixture of the best above varieties except originator's. Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50; 7 pkts., \$4.55.

STANDARD WINTER SNAPS (Except 12 Best)

Realizing the importance to many growers of selecting true winter flowering varieties, we are marking each variety as to whether it is suitable for a Christmas crop to be cleared from the bench by late February from a June sowing, or whether it is more suitable for spring flowering. Some growers get these so called "Spring Flowering" varieties in for Christmas by sowing in May and hardening growth before winter. The selections are based on our own annual winter flowering greenhouse trials. Winter flowering sorts are marked "W"; Spring flowering, "S."

Sorry, we can't supply originator varieties in half packets.

WHERE PRICE IS:

\$1.00 per pkt., we supply any 3 for \$2.50; any 5 for \$3.50; any 7 for \$4.55.

\$1.50 pkts., we supply any 3 for 4.00; any 5 for \$6.50.

\$2.00 pkts., we supply any 3 for \$5.00; any 5 for \$7.50.

1/2 Trade Pkts: All varieties offered at \$1.00 per pkt. are supplied in half pkts. at 60c.

	Tr. Pkt.
Bertha Baur (S). Standard lavender; some rogue colors.....	\$1.00
Captor (W). Pure white; fair habit.....	1.00
Celestial. Long stemmed light yellow.....	1.00
Cheviot Maid White (W). Fair flower size.....	1.00
Cheviot Maid Yellow (W). Good stem; medium size flower	1.00
*Coate's Yellow Perfection (S). Not early, but a bright color and excellent stem.....	1.00
*Daybreak (Rust-proof strain) (W). Briarcliff shade of clear pink	1.00
*Gilbert's Pink (W). Similar to Rose Queen in color and habit; fairly early and preferred by many Ohio growers....	1.50
Ideal (Hodaly) (S). An attractive and unusual bi-color bronze and gold.....	2.00
Kirkwood Beauty (S). Bronze orange	1.00
*Klondike Supreme (S). Large flowering strong habit; excellent color and a fine late winter and spring variety.....	1.50
*Lucky Strike (S). The standard strong growing white for late winter and spring; an excellent producer.....	1.00
*Marie Louise (W). A beautiful light shell pink especially when flowered in spring; choice color and exceptionally uniform	2.00
Maiden's Blush (Thompson). Originator's Description: "Pink suffusion over white or appleblossom. Very beautiful in all combinations; fine flowers, stems, and foliage." 1/2 tr. pkt., 85c	1.50
Marion (W). White; good fairly early habit.....	1.50
*Miss Wooster (S). Exceptional for large attractive flower and spike; fine light golden orange for spring.....	1.00
New Deal (W). Extra early bronze; prefer Sunlite.....	1.00
Orchid, (Schrock's). (S). Varies some in color.....	1.00
*Peggy Schumann (S). Glowing rose pink; excellent full spikes	2.00
Radiance (W). Large flowered extra early pink.....	1.00
*Rose Queen (W). Very fine deep rose for late winter crop; compact full spikes, and a good producer.....	1.00
Schumann's Lavender (S). Choice full fine spikes; excellent color. True, and clearly the best lavender for spring. No half packets. Originator's packets.....	2.50
Terry's Surprise (S). An unusual rose shaded orange; fine for spring.....	1.00
Velvet Beauty (W). Standard crimson; prefer Velvet Supreme	1.00
*Velvet Supreme (W). Warm crimson red selection from Velvet Beauty; a live glowing color in spring.....	1.50
Westover's Fringed White (S). Large fringed pure white for spring	1.00
White Prosperity. Clear white; free producer.....	1.50
White Rock. Standard white50
Windmill's Rose Pink Cheviot (W). Very early, true, and free flowering selection of Cheviot.....	1.50

Windmill's Appleblossom (S). A clear medium rose; attractive color	1.50
Windmill's Snow White (S). Excellent white for Easter and the warm spring months.....	1.50
Winter Helen (W). Improved Helen; a coral rose.....	1.00
Standard Early Mixed. Carefully blended mixture of the best cut flower colors listed above.....	.75

NOVELTIES

We regret that we have not yet had the following varieties among our own winter trials as yet, so they are offered with originator's description. We have good reports on many of them, and no doubt some will be on our preferred list for another season.

Mary Ellen. See "Twelve Best" for descriptions and prices.

Sunray (New). "A deep bright yellow, extra long fine spike, and a good shipper." Tr. pkt., \$2.00; 3 pkts., \$5.00.

Shaffroth's Early Pink (Non-shattering). "Queen of all pink Snaps. During the past season, Shaffroth's Early Pink realized premium prices on Eastern markets." Tr. pkt., \$2.00; 3 pkts., \$5.00.

Yellow Wonder (Bezdek). "A yellow Snap that qualifies 100% for earliness, color, and all-around value as a cut flower." Tr. pkt., \$2.00; 3 pkts., \$5.00.

St. Louis Early Pink (Rowe). "A shade of luminous silvery pink that harmonizes well with most other flowers; a really good new early bloomer." Tr. pkt., \$2.00; 3 pkts., \$5.00.

RUST RESISTANT SNAPS FOR OUTDOORS (Not Winter Flowering)

"10 BEST" RUST RESISTANT SNAPS

***Rosalie (New Majus Grandiflora).** Received Bronze medal in '39 All America trials. The deep rose we have been waiting for. Color of Rose Queen in the Earlies. Fine closely-set spike and good stem. Tr. pkt., 50c; 1/8 oz., 85c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$9.00.

Swingtime (Maximum). A very nice medium light pink with yellow lip and white throat. Good cut flower habit. Tr. pkt., 25c; 1/4 oz., \$1.10; 1 oz., \$3.85.

Maximum White. Clear paper-white on long straight stems. Best cutting variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Alaska (Maximum). White with slight creamy cast. Not as long stemmed as above but much freer flowering. Best for decorative plantings. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Canary Bird. (Maximum). Clear light yellow, long stems. Fine cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Buttercup (Majus Grandiflora). Medium deep canary yellow; very free flowering. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Defiance (Majus Grandiflora). Color shades some in the bronze and Wallflower Red classes. Truest and longest-stemmed variety in this color. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Maximum Crimson. Deep velvety crimson—same as the Early Velvet Supreme. Growth not quite as strong as other Maximums, good cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

University of California Mixture. An exceptionally strong growing and long-stemmed strain covering a very complete color range. A fine mixture for long-stemmed cut flower work. Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.75.

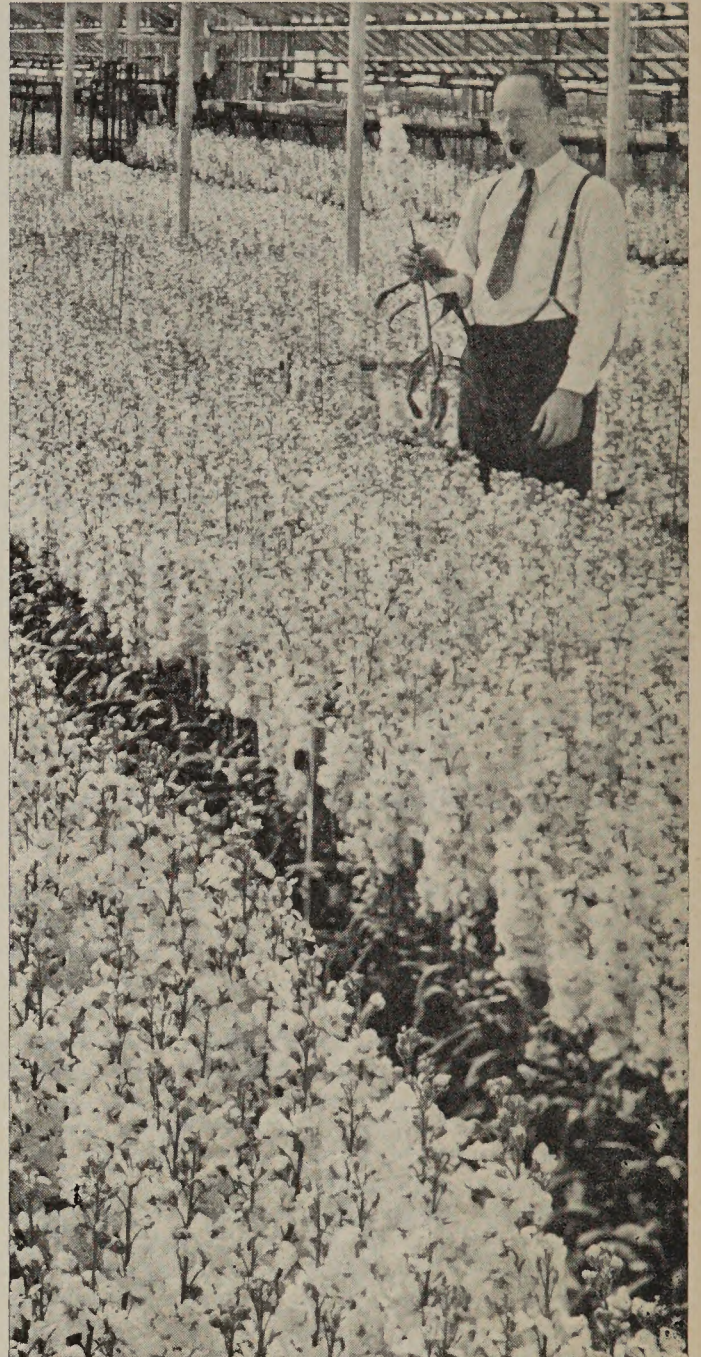
Golden Orange. Dwarf for bedding only. Light golden bronze with white throat. Very bright combination. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Unless conditions are exceptionally unfavorable—much rain or fog, the following select list will be found nearly 100% rust-resistant. Where winters are open or mild, they might prove of more value than the forcing kind. They will not be quite so early or true to color, but, besides their resistance to rust, the growth is more vigorous. Their principal value in the north is for outdoor summer flowering.

BALL NON-BRANCHING STOCKS

(16,000 seeds per oz.)

Nothing that we have taken up and improved has given us more satisfaction than has this class of Stocks—and we find the demand for them increasing. In fact, our market will not use the smaller flowered, shorter stemmed branching kind when the non-branching are available. Yet, no retail grower should overlook the more freely produced branching class for to most anyone's business, one is as valuable as the other. All Stocks are susceptible to a kind of stem rot that can only be prevented by using sterilized soil in all stages of their growth. We usually get in a nice crop for Xmas by sowing early July in our latitude, 1 to 3 weeks later further south and growing on a raised bed with 48-50° night temperature. Also note this: we find the proportion of doubles increased by removing the weakest plants when they are up around 6 in. Also, at this height, the singles tend to have narrower leaves with smooth edges, the doubles being some notched or serrated. In planting, we space 2½ in. in row which will leave them spaced about right after 6 to 8 seedlings have been removed from a 48 in. row. Our BALL RED BOOK and our monthly GROWER TALKS will give you further cultural information on this important cut flower crop.



A house of our New Ball White Imp. No. 15—the finest white available.

NOTE. Our BALL WHITE NOS. 15 and 16 are sold out as this catalog goes to press. Our new crop of both these varieties will be ready early September—this year. All lots of non-branching Stock seed we are selling this summer and fall except our Ball Whites mentioned above are from last fall's harvest and has been flowered this spring. This precaution might save you a loss.

PLEASE ORDER BY NAME AND NUMBER TO AVOID POSSIBLE ERRORS.

PRICES: All our non-branching varieties are priced as follows: (Except where noted). ½ Tr. pkt., 60c; Tr. pkt., (12-1300 seeds) \$1.00; ¼ oz., \$2.50; 1 oz., \$9.00.

- *No. 19 Ball Chamois (*New*). Our latest production in Non-Branching Stocks and an original color in this class. It is almost identical to Bismarck Chamois, perhaps a shade deeper under most conditions. Long stemmed, good average per cent of doubles, and strictly Non-Branching. Tr. pkts. only and ready in September at no advance over standard prices.
- *No. 1—Lilac Lavender. Clear even lavender, long-stemmed and generally averages higher in proportion of doubles than any variety on the list. The best standard market variety.
- *No. 3—Ball Blue. Rich dark mauve blue; in other respects, identical with Lilac Lavender from which we selected it. A good market color.
- *No. 15—Ball White Imp. Pure paper white; strictly non-branching, early, and long-stemmed. This and our No. 16 we believe to be the finest white Non-Branching Stock obtainable. Due to the unexpected demand for Ball White No. 15 and 16, we will be unable to supply more than trade packets of either until our first new crop comes in about September 1.

- *No. 16—Ball White Medium Tall. Also pure paper white, but more compact in growth than our No. 15 with flowers more closely placed on the stem. It is generally preferred but for late planting, will not be long stemmed if grown cool for low temperature forces setting of buds early. Trade packets only until about September 1.
- *No. 17—Gold Standard. Our latest addition to this class. Pleasing canary yellow, the same shade found in Bismarck Golden Ball. Nearly all selections made for this produce white singles and sometimes a few doubles will be paper white, but both this and the yellow are good colors.
- *No. 11—Ball Pink. Clear medium deep rose pink about the shade of Bismarck Rose. Strictly non-branching and fairly long stemmed. We prefer this for winter flowering, finding it rather light under the strong sun of spring during which time our No. 14 shows up stronger.
- *No. 14—Ball Rose Pink. Somewhat deeper rose pink than No. 11; longer stemmed, therefore some later, about a week to 10 days, than No. 11. Quite generally well liked.
- *No. 18—La France (*New*). A quite distinctive addition to our rose columns. We find it a shade lighter than No. 14, much deeper than No. 11, and clearly longer stemmed than either. In flowering date, it is about intermediate between the two. A fine bright rose, strictly non-branching, and excellent. *Seed not available until Oct. 1, 1940.*

STOCKS—(Continued)

No. 7—Malmaison Pink. Long-stemmed light or shell pink, becoming blush pink under winter conditions. Like our original Ball White Tinged from which we selected Malmaison Pink, it is some inclined to branch from about end of stem. A choice shade under Spring conditions.

No. 6—American Beauty. True deep American Beauty rose. A rich, tho heavy, color.

No. 8—Ruby. Long-stemmed strong crimson red. Strikingly fine where that color can be used.

No. 2—Ball White. Under some conditions, this will come very lightly tinged, but hardly enuf so to prevent its use as a pure white. Flowers closely spaced and extra long-stemmed.

No. 2—Ball White Medium Tall. Same as our No. 2 but 6 to 8 in. shorter stemmed.

No. 5—Ball White Extra Dwarf. The most compact pure white non-branching type. Attractive as a pot plant; grow 6 plants in a 6 inch pan, removing the Singles soon as detected.

No. 4—Ball White Dwarf. 8 to 10 in. shorter than our No. 2 Medium Tall. If grown quite cool in the early stages, this will set buds early enuf to make an attractive pot plant.

No. 9—Chamois Pink. Pleasing apricot or chamois pink. A fine color, but we regret our inability to get this variety much over 50% double.

Gardenia. Evidently a purer white selection of our Ball White Tinged Pink. While it retains the slight tendency to branch, it is quite long-stemmed and a good white. About 10 days later than our strains. Tr. pkt., \$1.25; 1/8 oz., \$2.50; 1/4 oz., \$4.50; 1/2 oz., \$8.00; 1 oz., \$15.00.

No. 10—Ball Non-Branching Mixture. A balanced mixture of the more valuable cut flower colors in the above list. 1/2 tr. pkt., 60c; tr. pkt., \$1.00; 1/4 oz., \$2.25; 1 oz., \$8.00.

BRANCHING STOCKS

Part of any retail grower's Stocks should be of this class because of their freer flowering, tho shorter stemmed, habit. A good plan is to space this class about 6 x 6 in. When up 6 to 8 in., top back about a few in. Another suggestion is to let them run into bud far enuf to distinguish the singles that make long buds, while the doubles

are short. When the singles can easily be noted, remove them and top the remaining doubles, that, under favorable growing conditions, will easily fill out the bed. However, most retail growers use single Stocks to advantage. *indicates the generally preferred varieties.

GIANTS OF CALIFORNIA

This class improves the Bismarcks in being of somewhat stronger growth and some longer stem. The original of this class is Santa Maria that we consider the best branching white. While this new class doesn't radically improve the Bismarcks, they are distinctly better.

***Pacific.** Fairly dark blue with extra stem and growth; about the color of Bismarck Lilac.

***Yosemite.** About the shade of Bismarck Rose; a strong clear color with extra heavy growth.

***Santa Maria.** Generally accepted as the best branching pure white; distinctly stronger than Bismarck White.

Roselight. Similar to Yosemite, but some stronger growing.

Prices for Above Four Varieties: Tr. pkt., 35c; 1/4 oz., \$1.15; 1 oz., \$4.00.

Mixture of all colors in this new class. Tr. pkt., 25c; 1/4 oz., \$1.00; 1 oz., \$3.50.

IMPROVED BISMARCKS

With its dependable percentage of doubles, the Bismarcks continue to lead the branching class.

Antique Copper. Fine copper red.

Apple Blossom. An extra delicate pink; nearly white.

Blood Red. Ruby color.

Buttercup. Deep cream, strong growing.

***Chamois.** Fine clear chamois.

***Elk's Pride.** Rich purple.

Flesh. Delicate shade of Malmaison Pink.

***Golden Ball.** Ivory yellow.

Golden Rose. As named.

***Lavender.** Clear lilac lavender; fine.

***Lilac.** Bright deep lilac-blue.

***Rose.** Fine bright rose pink.

***Shasta.** New giant white.

White. Good clear white.

Prices Each: Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

Formula Mixture of above colors. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.25.

PERPETUAL BRANCHING

(Giant Perfection)

Habit similar to Bismarcks, but not quite so tall.

***Empress Augusta Victoria.** Fine silver lilac.

Heatham Beauty. Terra-cotta or golden rose.

Rose. A clear even shade.

Snowdrift. Clear white.

Prices Each: Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

BEAUTY OF NICE

Compact like a Ten Week but not quite so dwarf.

Aurora. Golden buff.

Flesh Pink (Beauty of Nice). Flesh or Malmaison pink.

Cote d'Azure. Light lavender-blue.

Mont Blanc. Clear extra early white.

Queen Alexandra. Rosy lilac; fine.

Prices Each: Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

TEN WEEK

Dwarf, compact, and early; used for bedding and pot plants.

Blood-Red

Canary-Yellow

Carmine-Pink

Deep Rose

Lavender

Purple

White

Prices Each: Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Formula Mixture. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.60.



Showing the strictly non-lateral habit of our Column Stocks.

WINTER SWEET PEAS (350 Seeds per oz.)

To produce mid-winter Peas in the greenhouse, it is necessary to have the vines hardened some. There are several ways to do this; an important one is to sow early. If sown mid-June in our latitude, the growth will be plenty hard by Sept. when they should be in good crop. A fairly well shaded house, clean, moderately moist soil, are necessary to pull a sowing thru the heat of summer. Sub-irrigating that maintains the surface soil dry is a great help in preventing stem rot that is so common. Another way to harden growth is to grow on 6 in. deep raised beds. This permits complete control of growth, but in such shallow

soil, the crop will shorten sooner than when roots are in deep soil. A sowing made around Aug. 1 in a deep bed hasn't time enuf to harden its growth before short dark days set in, and will drop buds more or less until Jan., unless you are favored with more bright fall weather than we usually are.

VARIETIES

We annually grow a crop for winter and spring flowering, and have done so for 40 consecutive years. We not only make use of this for testing all new ones offered, but do considerable development of new ones as well. This enables us to offer only the best or most suitable for cut flower purposes.

THE 12 BEST VARIETIES

are based on our experience as well as the demand for them from all sections. We realize the impossibility of this list being 100% correct for all demands,—but, we repeat, it covers "all the best" according to our experience and that of others. Consider it carefully.

Ball Rose Queen. This is our answer to the best rose pink. It is longer stemmed, stronger in growth, 20% larger and a shade darker than Laddie that has up to now been our best clear rose pink. We have worked for 6 yrs. to get this trued up and now have it around 95 % so. 1/2 ounces only till August 1. 1/2 oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Ball Rose Supreme. In this we have a substantial improvement on our Ball Rose that has been supreme in its color for years. BALL ROSE SUPREME improves it greatly in size, is better frilled, deeper in color, and longer stemmed. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.

Harmony. We have a new lavender to offer this season, better, we believe, than Harmony, but we prefer another season's test before placing it in this select class. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.

Ball White. The experience of most growers is that at least there is nothing better than this white seeded variety and with us there is nothing quite so long-stemmed, large, and pure in color. 1/2 oz., 25c; 1 oz., 35c; 4 oz., \$1.20; 1 lb., \$4.00.

Princess Blue. This belongs in the new long stemmed, large flowered class that is doing much to keep Peas in the forefront as a cut flower. Rich light lavender blue. 1/2 oz., 30c; 1 oz., 40c; 4 oz., \$1.40; 1 lb., \$4.50.

Ball Orange Imp. Among our new ones that is perfected and ready to work up stock of is a long stemmed, large flowered, strong growing orange. Until it is ready, our Ball Orange Imp. is the clearest orange on the list. 1/2 oz., 25c; 1 oz., 35c; 4 oz., \$1.25; 1 lb., \$4.00.

Triumph. Long stemmed, large flowers, lilac mauve. This is a first class cut flower color. The past season our market couldn't get enuf of it. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.

Treasure Island. Another one of the modern type that has gone over strong with most growers. Extra large, long-stemmed golden orange red. 1/2 oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Signal Red (New). No collection of Peas is complete without a "red". In Signal Red we have a distinct improvement on Pride, its cerise red being tinged with orange. Extra long stemmed; medium size. 1/2 oz., 75c; 1 oz., \$1.40; 4 oz., \$5.50.

Hiawatha. This and Treasure Island are the largest flowering on the list and its huge deep rose flowers are borne on good stems. While the color is good in mid-winter, it is a glowing clear deep rose on white ground in spring. 1/2 oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Sequoia. Fairly deep rose with some Salmon shading. Long stemmed, large flowered. A first class pink Sweet Pea. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.

Mrs. Hoover. We hesitate putting this back here for Tahoe is far better and should be used for spring flowering, but its strong growth gets it into flower too late for winter, so we must stay with the tall growing Hoover for that reason. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.

12 Best Mixture. Carefully blended formula mixture of the above varieties. 1/2 oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb., \$3.50.



Strikingly fine large flowers of our new Ball Rose Supreme.

WINTER SWEET PEAS—(Continued)

GENERAL LIST (Except the 12 Best)

Starred (*) varieties we find the best.

- American Beauty.** Fine American Beauty Rose.
Amethyst. Rich bright purple.
Annie Laurie. Bright rose pink.
Apollo. Salmon cerise; fine for spring.
Attraction. Rich long-stemmed salmon rose.
Aurora. Orange-scarlet striped.
***Bacchus (New).** Large flowered deep maroon purple.
 ½ oz., 25c; 1 oz., 35c; 4 ozs., \$1.25; 1 lb., \$4.00.
***Ball Rose Improved.** Standard free flowering bright rose.
***Blue Danube (New).** A showy deep clear blue; fine.
***Boon.** Extra large flowered cream salmon.
***Bridesmaid.** Delightful silvery pink; large flowered.
Bright Light. Vivid orange scarlet.
Chevalier. Dark rose.
***Cinderella.** Extra large flowered light blue; choice.
Columbia. Rose and white bicolor.
***Daphne.** Soft salmon pink on cream; fine.
Eileen. Rich Begonia rose.
Eleanor Blue. Excellent light blue for spring.
Flamingo. Long stemmed orange salmon.
Fragrance. Fine lavender for spring.
Giant Rose. Large flowered rose.
Grenadier. Poppy scarlet.

- Harlequin.** Chocolate bicolor.
***Hope.** A purer white strain of this standard white.
Jeanne Mamitsch. Clear rose; long-stemmed.
Josie. Longest stemmed rose pink.
***Laddie Imp.** Extra fine long-stemmed rose pink.
Majestic Rose. Fine large rose pink.
Maroon Prince. Dark maroon; rather heavy.
Michigan. Large lavender.
Mrs. Holscher. Very large rose pink.
Mrs. Kerr. Salmon.
Oriental. Black seeded cream.
Pride. Extra long stemmed brilliant cerise.
Prosperity. Soft glowing rose cream.
Red Bird. Crimson red.
***Redwood.** Extra large flowered deep crimson.
Snowstorm. White seeded white.
Springsong. Prefer Boon.
Success. Extra bright deep rose pink.
***Sunproof Orange (New).** Good large flower; some cerise shading.
Sunray. Light cerise; fine stem.
Tahoe. Outstanding dark blue for spring.
***Top Hat.** Deep bright violet blue; fine growth.
Vivian. Long-stemmed deep carmine rose.
White Harmony. Longest stemmed black seeded white.
Zvolanek's Rose. Rose; prefer Laddie.

Any Above Priced As Follows Except Where Noted:
½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

- Ball Early Mixture.** A well balanced mixture of the above.
 ½ oz., 15c; 1 oz., 25c; 4 ozs., 85c; 1 lb., \$3.25.

THE TWELVE BEST LATE PEAS

The following twelve varieties we believe represent the best ones in their respective color classes. Our choice is based on experience growing them for market and on your demand for them and we believe you won't go wrong by taking them into consideration.

- Pinkie.** Finest rose-pink; large flowered and long stemmed and a heavy producer.
Pinnacle. A deeper shade of rose than Pinkie; about like Early Success.
Gigantic. Finest late white; extra large flowered and many duplexed; black seeded.
Chinese Blue. Bright strong clear color; our best late blue.
Highlander. An unusually large flowered fine late lavender; decidedly improves Powerscourt in all respects.
***Ball Shrimp Pink.** A delicate shade of shrimp-pink. Its fine strong habit showed up well again in our trials the past season.

- *Crony (New).** A pleasing intense coral or salmon rose with fine stem; large flowers. 1 oz., 25c; 4 oz., 85c; 1 lb., \$2.25.
***Fairyland (New).** A fine clear pink on cream ground; outstanding for growth and flower size. 1 oz., 25c; 4 oz., 85c; 1 lb., \$2.25.
***Headlight.** Fine sunproof orange-scarlet; extra for stem and bright color.
***Loveliness.** Silvery pink cream ground.
***Maytime.** A rich golden cerise with fine long stemmed habit; lots of 4's. 1 oz., 25c; 4 ozs., 75c; 1 lb., \$2.50.
***Welcome.** Brilliant sunproof scarlet; large flowered.
Six Best Mixture. A mixture of the above "All the Best" varieties of Late Peas.
Prices on All Above Except Where Noted. Each: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

THE NEW SPRING FLOWERING CLASS

Promising new type; intermediate in earliness between true winter bloomers and late or outdoor types. Recommended for Nov.—Dec. sowing in northern greenhouses

for an exceptionally fine long stemmed April, May, and June crops. Valuable also for outdoor culture and perhaps for southern growers.

TWO NEW ONES (Ferry Morse)

- Clear Pink.** A fine soft pink on warm cream ground. Typical vigor of growth and unusual stems. ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.
Mauve. Of fine spring flowering habit; a bright mauve about the shade of early Triumph. ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

STANDARD VARIETIES

- Rose Pink.** About the shade of Giant Rose in the earlies.
Lavender. A good even shade.
Blue. Fairly deep; about like Mrs. Hoover.
Mixture of the above.
Prices on above four: ½ oz., 75c; 1 oz., \$1.25; 4 oz., \$4.00; 1 lb., \$15.00.

BALL CALENDULA

(3000 Seeds Per Oz.)

Originated and Introduced by us 20 Years Ago

While Calendula are not so popular on most markets as they once were, they have real value for retail growers. Their warm attractive colors make them especially welcome during mid-winter when their color is not at all affected by dark weather. The Xmas and January crop is the most profitable one and is had by sowing early August, growing cold in deep ground beds. Give all ventilation possible until steady firing, after which night temperatures of 40-45°. In ground beds, we give them little or no water thru Nov. and Dec. This treatment will get them hard and prevent wilting. At least part of your stock should be disbudded for long stems and large flowers. Where summer heat is not extreme, or until hot weather sets in, Calendula are attractive for bedding. Largely used in Florida for this purpose during winter months. The longer stemmed BALL varieties will grow some taller for this purpose than the more compact bedding kind such as Radio, Orange King, Orange Shaggy, and Golden Beam.

NOTE! Our strains of Ball Calendula are to be had only in our sealed packets.



Vase of Our Ball Gold Calendula.

FORCING VARIETIES

Prices (EXCEPT MIXTURES): Tr. pkt., 40c; ¼ oz., 60c; 1 oz., \$2.00; 2 ozs., \$3.50; 4 ozs., \$6.50; 1 lb., \$20.00.

Prices on weight lots will be accepted on 2 or more varieties together. For instance, on ¼ oz. each of 4 varieties, instead of allowing 60c each, the ounce price of \$2.00 will be accepted.

***Ball Improved Long Orange.** (New). Attractive bright golden orange with light eye; a clearly lighter color than our regular Long Orange; outstandingly long stemmed and large flowered.

***Ball Long Orange.** The original deep intense orange with light center. Long stemmed and large flowered.

Ball Sensation. Similar to our Ball Long Orange.

***Ball Masterpiece.** Long stemmed clear deep orange with brown center. Attractively contrasting colors and free flowering habit.

Ball Supreme. Similar to Masterpiece, but not quite so deep a color and as large a flower. Outstanding for free flowering habit.

***Ball Gold.** Extra long stemmed, large deep golden yellow; light eye. Nice.

***Ball Lemon Queen.** Deep lemon yellow with attractive brown eye; our most popular yellow.

Ball Apricot. Light straw or buff color with showy dark center; some color variation but attractive.

Campfire (Sensation) (New). An excellent strain of long orange; fine deep orange, good sized flower and valuable for forcing.

Ball Formula Mixture. Carefully made up of the above varieties with fully half orange. Intended for retail growers.

Ball Art Shades Mixture. Many original and interesting color variations, many being new in Calendula and hard to "true up".

Prices on BOTH above MIXTURES: Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.50.

CALENDULA FOR BEDDING

The following varieties are not as long stemmed or large flowered as the above and are used for bedding work in favorable climates.

***Orange Shaggy.** Petal tips of this bright orange variety are finely fringed giving it a distinctive appearance. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 65c.

***Apricot Queen.** An apricot-buff with petal tips attractively flecked orange. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.10.

Friiled Beauty. New deep orange, attractively friiled. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Sunshine. Chrysantha. Loose petaled bright yellow; upright growth with fair stems. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Prices on the following, each: Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.75; 1 lb., \$5.25.

Radio. Bright orange, quilled petals, quite attractive.

Radio Golden Beam. Clear yellow Radio.

Orange King. Dark centered deep orange; for bedding.

Lemon Queen. Light lemon yellow; somewhat taller in growth.

Ball Bedding Mixture. Well proportioned mixture.

ANNUAL LARKSPUR

(8000 Seeds Per Oz.)

Either in or outdoors, annual Larkspur is easily, and we should add extensively, grown. It fills any demand for long stemmed, choice colored flowers. A cool temperature crop; and easily grown, too. But, they are somewhat susceptible to a rot that eats right thru the main stem. Sometimes it's bad, but usually it does little damage. We have had it develop some in soilless or gravel culture, which would indicate that whether or not the rot is in the soil, it will develop if conditions favor it. Too much moisture, especially atmospheric, and lack of free ventilation, we believe, are primarily responsible for its spread. We never get much of it on raised beds that are, of course, much better ventilated than ground beds. Also, growth becomes more resistant to it if the soil is allowed to dry out fairly well between watering. We believe this important. Larkspur seed will germinate poorly or not at all in a high temperature. A few years back, we made an outdoor late June sowing with no results at all. With the coming of cooler weather and rains in Sept., it came thru apparently 100%. This shows the effect of high and low temperature on the germination of Larkspur seed. In the latitude of Philadelphia, St. Louis, or south of these points, an outdoor Larkspur crop is sown to advantage in the fall. This should be done in time to produce well established little plants before winter sets in. Such plants are usually produced in 4-6 weeks. A light covering of such coarse material as corn stalks, will prevent possible thawing and freezing out; a heavy covering usually rots them. Generally no covering is needed at all. The base branching class pictured, is generally preferred and our choice of varieties is starred (*).

NOTE. New crop Larkspur seed is ready late August. If earlier delivery is wanted, last season's crop that will be hardly a year old and has been stored cool, will be shipped. Let us know if fresh seed can be waited for.

BASE BRANCHING OR IMPERIAL VARIETIES

The preferred type for cut flowers.

***Blue Bell.** Clear mid-blue; excellent.

***Blue Spire.** Strong deep violet blue.

Carmine King. Carmine-rose.

Daintiness. Rather light lavender shade; we prefer Sweet Lavender.

Dazzler. Fine large carmine-rose; more uniformly deep carmine color than Carmine King.

Exquisite Pink Improved. Fine soft pink.

***Gloria Improved.** Bright rose-pink; the preferred rose.

Lilac Queen. Rich lilac-lavender.

Los Angeles Improved. Bright salmon-rose; fine habit.

Miss California. Pink shaded salmon.

***Sweet Lavender.** Clear, even lavender color; fine strong spikes and large double flowers.

***White King.** Finest white; large flowered and pure color.

White Spire. Good white.

Formula Mixture. Specially blended of good cut flower colors in above list.

Prices on all above varieties and Formula Mixture: Tr. pkt., 25c; 1/4 oz., 35c; 1/2 oz., 60c; 1 oz., \$1.00; 1 lb., \$10.00. 4 ozs. of any one variety at lb. rate.

Rosalind. (New). Originator's description: "Rose with light salmon diffusion; more shatter proof than other varieties and extra strong growing." Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.35.

STOCK-FLOWERED VARIETIES

Dark Blue. A rather deep but bright shade.

***Lilac Supreme.** A bright strong shade of lilac; excellent.

Lilac Imp. Pleasing shade of lilac.

Los Angeles. Bright salmon-rose.

***Rosamond.** Deep rose; excellent.

Rose Queen. Very attractive rose-pink.

Sky Blue. Good light blue.

White. Prefer White King.

Formula Mixture of the above.

Prices on all above varieties and Formula Mixture: Tr. pkt., 20c; 1/2 oz., 30c; 1 oz., 50c; 1 lb., \$5.00. 4 ozs., of any variety at pound rate.



Showing why the new Imperial or Base-Branching varieties are preferred for long-stemmed cutting.

GIANT HYACINTH-FLOWERED

Produces one long non-branching spike. Fine for long-stemmed cut flower purposes. Germination somewhat uncertain.

Dark Blue, Lilac, Pink, Purple, White. Each: Tr. pkt., 25c; 1/4 oz., 30c; 1/2 oz., 50c; 1 oz., 80c; 1 lb., \$8.00. 4 ozs. of any one variety at lb. rate.

Mixed: Tr. pkt., 15c; 1/2 oz., 30c; 1 oz., 55c; 1 lb., \$5.50.

DWARF EMPEROR TYPE

Less than half the height of the regular cut flower kinds and much used for bedding.

Ageratum Blue. Well named and a pleasing color. Tr. pkt., 25c; 1/2 oz., 40c; 1 oz., 75c.

Mixture of all colors in this type. Tr. pkt., 20c; 1/2 oz., 35c; 1 oz., 60c.

FINE CINERARIAS

The ever-popular, easily grown American pot plant. While Cremers is generally preferred, Berlin Market (Weissensee strain containing many light eye flowers) is a close second. We annually flower trial lots of Cinerarias from all specialists, regardless. This enables us to know what's being done by these specialists and to offer "all the best" in this indispensable pot plant.

A June sowing can be flowered in 5 in. pots for Xmas; and red, that is offered in separate colors, is fairly popular for this occasion. July and August sowings are flowered during mid-winter and up to Easter, depending on temperatures. Our Cineraria trials are sown around Oct. 1 and flowered in 4's for Mother's Day. The roots of Cinerarias rot if kept too wet resulting in checked or stunted growth. To further control this rot, we use sterilized soil.



The three most perfect and popular Cinerarias. In order of their selling value: Cremers (center) is generally preferred; Berlin Market (right) is next; but the most dwarf multiflora is liked by many.

We offer this season, a mixture of these 3 leaders, as well as one of Cremer's and Berlin Market that has taken so well with retail growers.

TWO POPULAR MIXTURES

- | | |
|---------|--|
| *No. 1. | Cremers and Berlin Market mixed in equal proportions. |
| No. 2. | This contains Cremers 50%; Berlin Market 25%; and Multiflora Nana Mixed 25%. |
| | Each: Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00. |

***Cremers Prize Strain (Reselected Stock).** 6300 s. per $\frac{3}{4}$ oz. Large heads of medium size flowers freely produced in a well balanced mixture of colors. Semi-dwarf habit with small foliage that requires less bench space per plant than some large foliage types. Generally speaking, small flowers hold up better than large ones, a point in favor of the Cremer type. *Seed direct from originator.* Tr. pkt., \$1.50; $\frac{1}{4}$ oz., \$2.25; $\frac{3}{4}$ oz., \$4.00.

***Berlin Market (Weissensee Strain).** 3500 s. per $\frac{3}{4}$ oz. Nearly all flowers in this fine strain are light eyed or centered as shown in picture. This gives it a brighter effect than is had in Cremers. The medium large flowers are freely produced as shown. An excellent strain. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.60; $\frac{3}{4}$ oz., \$2.75.

***Siter's Rainbow Strain.** We find this strain some earlier flowering than Cremers, and the color mixture some lighter and to some, more attractive. Flowers seem to average slightly larger. A very good attractive strain. Originator's packets, \$2.00.

Grandiflora Dwarf Mixture (Grandiflora Nana). An excellent large flowered compact strain from Europe. Tr. pkt. only, 75c.

Giant Exhibition. (Howard and Smith Strain). Strikingly large flowers in a bright array of colors. Flowers very showy but don't handle well. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$3.00.

Eriksson's Private Stock. A choice Berlin Market Selection made by Ernst Eriksson, a Chicago pot plant grower. Preferred by some growers. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75. Originator's sealed packets (500 seeds) \$1.00.

BERLIN MARKET STRAIN IN Dark Crimson and Dark Blue.

MULTIFLORA NANA TYPE IN Dark Crimson and Dark Blue.

Both above separate color strains will come about 90% true to colors.

Each Above Separate Colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50.

***Gold Centered Multiflora Nana Mixture.** True Multiflora Nana; note picture. This strain is selected for a yellow disc or center that adds to its attractiveness. A fairly good proportion come true to this character. Tr. pkt., \$1.00; $\frac{3}{4}$ oz., \$2.00.

GRANDIFLORA VARIETIES IN SEPARATE COLORS

Azure Blue. Showy clear blue shades; medium large flowers.

Sanguinea. A strong red Grandiflora. An attractive new red shade.

Kermesina. Rich deep red. Of Grandiflora size. Each above: Tr. pkt., 75c; $\frac{1}{4}$ oz., \$2.00.

Gigantea. Dark red with white eye. Attractive color combination. Compact growth. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00.

VARIOUS TYPES

Stellata or Star Type. This small free flowering strain gets up 2 ft. under favorable growing conditions. Used for pots or cutting. Tr. pkt., 50c; $\frac{3}{4}$ oz., \$1.50.

Plenissima, Double Mixed. Finely rounded, full double flowers about 1½ in. diameter. Of interest as a novelty. Tr. pkt., 50c.

PRIMULAS

A wide and valuable class of florists' plants in perennials, annuals, both in hardy and for the greenhouse. Since we have been depending on Europe for seed of most classes, supplies will remain irregular until conditions over there are settled.

(4500 Seeds per $\frac{1}{32}$ oz.)

PRIMULA OBCONICA

As this catalog goes to press, we have a good supply in stock of nearly all Obconicas. Germination around 65-75%. This is the most showy of all Primulas for pot plants; and the demand seems increasing, tho some do find that contact with them does leave an irritating skin effect. A June sowing of this class is grown into good strong flowering 4 in. plants by mid-winter; any retail business uses them to advantage at that time. Obconicas will stand a little more temperature than other Primulas.

All our Obconica seed is furnished in sealed glass tubes to assure freshness and good germination; no extra charge.

- Better Days.** Good deep carmine-red; compact habit.
Coerulea. Fairly dark blue.
***Fasbender's Red.** Large deep crimson.
Lachsrosa. Large bright rose with attractive salmon shading; nice.
Mohnstein's Atrosanguinea. Dark red.
Mohnstein's Dark Red. Well known dark red.
***Mueller's Berlin Rose.** Bright clear rose.
Mueller's Rosea. Good rose.
Salmon Queen. Salmon or coral-rose.
White. A popular strain.
 Any **Above Priced** at: Tr. pkt., (1/128 oz.), \$1.10; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.
Mixture. Carefully blended mixture of above colors. Tr. pkt., (1/128 oz.), 60c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.
Portland Beauty. Double flowering rose-pink; excellent. Tr. pkt., \$1.50.

PRIMULA MALACOIDES

(12,000 Seeds per $\frac{1}{32}$ oz.)

A rapid growing indispensable class for any retail business. While Malacoides are very much a cool temperature class, they will flourish in a night temperature of 48-50° but much better at 45°. Free air circulation whenever possible is important as it is with any cool temperature crop. Specialists sow as early as June 1 for 6-8 in. specimen pans, 3 plants in a pan. Sowings can be made any time after June up to January, for small pot plants that work in so well in combinations.

- *Rosea Superba.** Finest extra large flowered and compact bright orchid rose. We find this variety clearly superior in its color class. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25.
Baby Rose. (Erikssoni). Extra good bright rose; compact habit and one of Eriksson's best. Tr. pkt., \$1.00.
***Riverside.** (New Erikssoni). Very attractive bright rose with salmon, good habit. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$2.75.
Brilliancy. (Erikssoni). Attractive crimson red. Outstanding color in combinations. Tr. pkt., \$1.00.
Baby Alba. (Erikssoni). Good size, clear white. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.50.
Mixture. Carefully balanced formula mixture of above varieties. Tr. pkt., \$1.00.
ERIKSSON'S NEW STRAINS. Careful personal inspection assures us of the value of the following new strains introduced this season by Ernst Eriksson, Primula specialist of Riverside, Ill. Seed offered is originator's in his own sealed packets. (Descriptions are Mr. Eriksson's.)
Glory of Riverside Improved. True rose pink; a strong grower and a real pot plant variety especially for 6-7 in. sizes.

Don't pass up the value of the several so-called Hardy Primulas: Kewensis, Kleyni, and Veris strain such as Colossea for spring forcing. They are choice and colorful. Complete listing in perennial pages. (Kewensis below.)



Baby Rose—its bright rose color and dwarf habit rate it high among Malacoides.

- Eriksson's New Giant.** Color similar to above, very robust habit with flowers up to 1½ inches. Somewhat later blooming, assuring a longer Primula season.
Eriksson's Deep Red (Brilliancy). Flowers open lavender, changing to brilliant red. An attractive and unusual combination.
Eriksson's Pure White (Improved). A real improvement in white Malacoides. Flowers profusely on numerous stems; germination good.
 Above each: 500 seeds, \$1.00; 2000 seeds, \$3.00; 6000 seeds, \$8.00.
Baby Rose. A good deep pink with free flowering habit.
Eriksson's Special Mixture. A choice selection of the above varieties.
 Above Two Varieties. 800 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

CHINESE PRIMULA

(18,000 Seeds per oz.)

Easily grown pot plant class to which a range of colors has been added in recent years that are very attractive. An early June sowing is necessary to produce 4-5 in. pot plants. An early Sept. sowing will come in for late winter and Easter. Varying temperatures will, of course, affect flowering dates.

- *Dazzler.** Vivid orange red. Outstanding color in this class. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.50.
***Chiswick Red.** Rich bright red.
Coerulea. Very excellent light blue.
Defiance. Deep red, dark center; fine.
Duchess. White with attractive Tyrian rose center.
Gigantea Alba. Extra large clear white.
Heath Rose. (New). Splendid bright rose-pink; fine compact habit.
Rose Queen. Large bright carmine rose. Excellent.
Special Mixture. Carefully balanced mixture of above.
 All above except Dazzler priced at: Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.
Primula Kewensis (Not a Chinese Primula). Deep yellow winter flowering pot plant. 10 to 12 in., nice. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25.

BEGONIAS

(30,000 s. per $\frac{1}{32}$ ounce)

SEMPERFLORENS OR FIBROUS-ROOTED

Valuable progress is being made in bettering this class. Among them are varieties that come practically 100% uniformly dwarf, free flowering and true to color. This is particularly true of the imported heterosis kind or such as are produced by crossing two varieties. Rose and Red Pearl are conspicuously in this class. All the Semperflorens are quickly and easily grown into 2 or 3 in. pot plants, and they are valuable for winter combinations or pot plants. Light or sandy leaf mold, uniform moisture and moderate temperature will grow them into such plants.

***Adeline.** Extra dwarf small but free flowering bright pink. Closely resembles the distinctly compact habit and color of Pink Pearl. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.85.

Albert Martin. Large bright carmine. Tr. pkt., 50c; $\frac{1}{32}$ oz., 85c.

Carmen. The original bronze-leaved Begonia. Flowers a bright rose-pink contrasting nicely with the dark foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.25.

Christmas Cheer. Fairly dwarf crimson scarlet. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.40; $\frac{1}{32}$ oz., \$2.25.

Darling. Bright clear pink under glass, deepening outdoors. Unusually compact habit and very large flowers. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.

Elegant. Unusually large soft pink flowers with luxuriant green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Erfordia. Clear pink; free flowering. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.

Essen. Fine bright rose-red with green foliage. Tr. pkt., \$1.00.

***Fire Sea (Blaze of Fire).** Large fiery red with green foliage. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.00.

Glory of Erfurt. Large bright carmine-rose. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.15; $\frac{1}{32}$ oz., \$2.00.

***Glow (Glut).** Showy red flowers with green foliage. Good pot plant habit. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.60; $\frac{1}{32}$ oz., \$3.00.

Gustav Knaake. Salmon-pink, resembling Melior. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.

***Indian Maid.** Foliage a deep lustrous bronze with richly contrasting scarlet flowers. Outstanding for color effect; good dwarf habit. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

***King of the Reds.** Glowing red flowers, green foliage, and a vigorous but dwarf habit making it valuable for pots or border work. Very similar in color and dwarf compact habit to Red Pearl. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.85.

***Lightning.** Strikingly large carmine-scarlet flowers; deep green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.60.

***Luminosa.** Deep scarlet, reddish brown foliage; fine. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.00.

Luminosa Compacta. Very dwarf and restricted; rather small but extra free flowering pot plant strain. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Mignon. Brilliant salmon-scarlet; semi-dwarf. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.75.

***Pink Pearl.** Same extra compact habit as Red Pearl, but flowers are a clear rose-pink. Originator's tr. pkts., only \$1.00.

Prima Donna. Light rose-pink shading to carmine outdoors; medium dwarf. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.15.

***Radio.** Quite large flowered carmine-scarlet. Tr. pkt., \$1.00; $\frac{1}{32}$ oz., \$2.25.

***Red Pearl.** Bright scarlet flowers freely produced on extra compact plants; unusually dwarf habit. Originator's tr. pkts., only \$1.00.

***Scandinavia.** New large flowered pot plant strain; good bushy habit with attractive dark green foliage; attractive shade of pink. Tr. pkt., \$1.50.

Scarlet Queen. Large scarlet; bronze green foliage. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50.

***Snow.** Pure paper white large flowered; good medium dwarf habit. Tr. pkt., \$1.00.



The fibrous rooted Begonias reach their highest usefulness as pot plants for spring sales. Sow seed any time from May to December.

Tausendschoen. Fairly heavy growing deep rose-pink; large and free flowering. Tr. pkt., \$1.00.

Vernon. Deep blood-red and dark leaved; medium dwarf. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c.

White Pearl. We offer a particularly choice large flowered strain of this standard white. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65.

Mixture. Of all colors in this class. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.00.

TUBEROUS ROOTED BEGONIAS

This class is becoming increasingly popular as summer pot plants; also used some for bedding in shady locations. Tuberous rooted Begonias are summer flowering, the tubers resting during winter. They are often grown from tubers but in 6 months can be grown into 4 in. pot plants from seed. All Begonia seed is very small and in sowing is easily smothered with covering.

***Mrs. Helen Harms (Multiflora fl. pl.).** A fine deep Primrose yellow, previously propagated only by cuttings. Flowers double and about 1 in. across; quite attractive. Tr. pkt., \$1.00.

Multiflora Nana Mixed. Pleasing mixture of small but freely produced double flowers; similar in type to Helen Harms. Tr. pkt., \$1.00.

Narcissus-Flowered. Flowers closely resembling Narcissus and about 3 in. across. Attractive mixture. Tr. pkt., \$1.00.

Large Flowered Single Mixed. Attractive shades of orange, rose, scarlet, etc. Quite large flowered; from 3 to 4 in. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.25.

Large Flowered Double Mixed. Not quite so large as above but fully double flowers. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.50.

***Lloyd Mixed.** Of graceful pendulous habit. Nice 4 in. plants mature in 6 to 7 months from the sowing of seed. Flowers double, about 2 in., and in shades of scarlet, salmon, and white. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.00.

Lloyd Red Shades. Similar to above but shades of scarlet. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.75.

Rex Hybrids. Ornamental leaved mixture of Rex Begonias; many unusual variations. Seed is small and must not be covered. 500 seeds, \$1.50; 1,000 seeds, \$2.85.

CALCEOLARIAS

(20,000 seeds per $\frac{1}{32}$ oz.)

In a cool house and with attention to uniform moisture, Calceolarias are easily grown from seed. When carefully grown, they do make irresistably attractive pot plants. For 5-6 in. specimens, sowing is usually done during July to August. The 4 in. pot specimens pictured on this page are from our flowering trials and are from seed sown Oct. 1. Such specimens are easily grown and are attractive in combinations.

HYBRIDA GRANDIFLORA

(Large Flowered varieties)

***Dwarf Tigered and Spotted Mixed.** Uniformly dwarf tigered and spotted mixture. Showy large flowers and attractive colors. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Albert Kent. Flowers golden-yellow with large red blotch on each. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.50.

Albert Kent Hybrids. Intermediate in size of flowers. Very excellent color range. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.00.

***Cloth of Gold.** Medium sized golden-yellow flowers very freely produced; dwarf and very showy. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.25.

Kelway's Perfect Model. We supply originator's seed of this well known strain. Wide range of colors and strong growth. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.25.

Tigrina. All flowers attractively tigered or spotted; medium size flowers and fairly tall growth. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.50.

***Grandiflora Mixture** of colors. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.50.

Monarch Strain. A strong growing, attractively colored Grandiflora mixture. About ten days later than regular mixtures but very fine. Tr. pkt., \$1.00; $\frac{1}{16}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00.



This cut pictures three distinct classes of Calceolarias. On the right is the fairly tall, spotted Tigrina; the ever popular Multiflora Nana in the center, with a Dwarf Tigered Grandiflora on the left. Seed for these was sown early October, flowering in May.

MULTIFLORA NANA CLASS

Most popular for smaller pot plant sales; dwarf, free flowering and brightly colored.

***Multiflora Nana Mixture.** Most widely used. Uniformly dwarf and very attractive. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.50; $\frac{1}{16}$ oz., \$4.00.

Golden Tiger. Golden-yellow, richly spotted red; excellent. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.00; $\frac{1}{16}$ oz., \$3.60.

Indian Prince. Rich deep scarlet, of good multiflora nana habit. Throws a few golden-yellow rogues, but both are very attractive. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.15; $\frac{1}{16}$ oz., \$4.00.

RUGOSA TYPE

***Flower Cloud.** Bushy, showy specimen plants; flowers not large but very freely produced. Its Rugosa parentage gives it exceptional handling qualities. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.75.

Perennial Hybrids. A very small flowered type used for large exhibition work and for bedding. Tr. pkt., \$1.00.

SCHIZANTHUS

(45,000 Seeds per oz.)

No retail grower, unless located in the warm south, can afford to be without Schizanthus. When cut and placed in water, they will last longer than will Peas, but the flowers shatter too easily for shipping. To flower in mid-winter, they must be sown not later than Aug. 1 and the roots confined to either pots or shallow raised beds. They will not flower until spring unless so grown. And, as is well known, they make handsome pot specimens; an August sowing, grown in a 48-50° house will get in full flower by Valentine's Day.

***Ball Dwarf Mixture.** We have been perfecting this strain for a number of years and now have it up to 75-80% true dwarf with a fairly good color range. Because of its dwarf habit, we do not care to flower it in larger than a 4 in. pot for which we recommend sowing about Oct. 1. However, a Dec. 1 sowing can be grown into nice 3 in. specimens for combinations. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50.

***Ball Brilliant Blend.** A carefully blended mixture of medium dwarf strains, all large flowered with fairly dark bright colors. Well suited to cutting; if properly pinched, makes fine pot specimens. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.15.

Dr. Badger's Improved Hybrids. An extra large flowered strain with choice colors and medium dwarf habit. An excellent all purpose strain, being large enuf for pot plants and long-stemmed enuf for cutting. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.

***Pansy-Flowered (Danbury Park).** The only true Pansy-flowered strain we have ever flowered. Comes quite true to large flat pansy-like flowers. Attractive soft pastel shades. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

A few **Originator's** packets at 75c each.

***Giant Blotched.** Noted for its brightly colored flowers, each having a bold dark center that contrasts well with the bright pink and rose shades that predominate. Two to three weeks earlier than most strains and effective as a pot plant if well pinched. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25.

Monarch Strain (Hurst). Extra large flowered, even some larger than Dr. Badger's. Has same desirable medium tall habit and choice range of colors; many bright rose shades. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Bridal Veil. Pure paper white and of medium tall habit. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.



*SCHIZANTHUS, Ball Dwarf Strain
The attractive form and free-flowering habit of these plants have increased their popularity every year since their introduction.*

MISCELLANEOUS ANNUALS

ALOE

Variegata. 6500 s. (Tiger Aloe). A very popular and generally satisfactory succulent house plant. Seed can be sown any time. 100 seeds, \$1.25; 1000 seeds, \$10.00.

ASPARAGUS

750 s. Likes heat during germination and a sandy soil mixture.
Plumosus. **Sprengeri.**
Prices on above, each: 100 seeds, 25c; 250 seeds, 40c; 1000 seeds, \$1.00; 5000 seeds, \$4.50; 1 lb., \$8.00.
For perennial *Asparagus Verticillatus*, see page 19.

BROWALLIA

65,000 s. Fine winter and spring flowering pot plant.
Speciosa Major Blue. 10 in. Standard large flowered blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.
Speciosa Major White. Same as above but white. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50.
Viscosa Compacta Sapphire. More compact than above with a profusion of small attractively light-eyed flowers. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

CANDYTUFT

Hyacinth-Flowered Giant White. (Ball Strain). 9500 s. A fall sowing will flower during mid-winter on raised beds. Tr. pkt., 20c; $\frac{1}{2}$ oz., 40c; 1 oz., 75c; 4 ozs., \$2.35; 1 lb., \$7.50.
For perennial *Candytuft* or *Iberis*, see page 22.

CENTAUREA CYANUS

(Bachelor Button). 6500 s. Ours are the new large flowered strains for florist use.
***Blue Boy.** The standard Bachelor Button blue.
Black Boy. Deep maroon.
***Pinkie.** Attractive rose.
Red Boy. Carmine-rose.
Snow Man. Pure White.
Formula Mixture of all colors in this class.
Prices each: Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.30; 1 lb., \$4.00.
For hardy *Centaurea Montana*, see page 19.

CYCLAMEN

We handle exclusively the famous Binnewies' strain.

	100 Seeds	1000 Seeds	5000 Seeds
No. 1. Dark Blood-Red	\$1.25	\$11.00	\$50.00
No. 2. Bright Red	1.25	11.00	50.00
No. 3. Pure Rose	1.25	11.00	50.00
No. 4. Soft Rose with carmine eye. (Improved Rose of Marienthal).	1.25	11.00	50.00
No. 5. White with carmine eye	1.25	11.00	50.00
No. 6. Pure White	1.25	11.00	50.00
No. 7. Bonfire Brilliant salmon.	1.85	16.50	76.00
No. 8. Salmon-Scarlet (America Improved).	2.20	17.50	80.00
No. 9. New Salmon-Rose Imp.	1.65	14.50	65.00
No. 10. Glory of Wandsbek (Perle of Zehlendorf). Dark salmon.	1.65	13.00	60.00
No. 11. Rose of Zehlendorf. Light salmon.	1.65	13.00	60.00
No. 12. Orange Beauty. Orange-vermilion.	2.00	18.50	86.00
No. 14. Morning Red	1.75	14.25	66.00
No. 15. Saffron-Red	1.55	12.00	55.00

R Indicates varieties suitable for rock garden work.

* Indicates our selection of most suitable and satisfactory varieties.

How Many Seeds Per Ounce?

After each item will be found the number of seeds per ounce; for example, *Abutilon* 850 s. means 850 seeds per ounce. These counts will vary and germination especially of perennials is not high; therefore, these figures must not be accepted as indicating the number of plants to be expected.



A DWARF IMPATIENS. This was found in Germany catalogued as Impatiens Sultani Hybrida Nana. It is uniformly compact in growth.

	100 Seeds	1000 Seeds	5000 Seeds
No. 16. Saffron-Red. Silver Edge.	\$1.85	\$16.50	\$76.00
No. 17. Striata. Mixed.	1.55	12.00	55.00
No. 18. Mozart. Deep pink.	2.00	18.50	85.00
No. 19. Lavender	1.25	11.00	50.00
No. 20. New Ruffled. Especially attractive class.	2.20	20.50	94.50
No. 21. Pink Pearl. Salmon-pink.	2.00	18.50	88.00
Cristata. Pure white feathered.	1.75	14.50	66.00
Mixture of above colors.	1.25	11.00	50.00

VOGT'S DOUBLE STRAIN.

We handle only Mr. Vogt's seed of this attractive double type.

Cerise Brilliant. Rich cerise-red.
Prosperity. Flaming rich rose.
Admiration. Salmon-rose with shaded eye.
Rosea. Soft rose shading light at tip of petals.
Mixture of above colors.

All above priced at: 100 seeds, \$2.50; 250 seeds, \$5.75; 500 seeds, \$10.75; 1000 seeds, \$20.00.

DIDISCUS

Coeruleus (Blue Lace Flower). 10,000 s. Attractive cut flower for fall from a July sowing or later from an after Mum planting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.

DRACAENA

Indivisa. 1500 s. The narrow-leaved and most popular. Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.
Australis. 1000 s. The broader-leaved kind. Tr. pkt., 20c; 1 oz., 75c.

EXACUM

***Affine Atrocoeruleum.** 27,000 s. per $\frac{1}{2}$ ounce. An easily grown richly fragrant pot plant. Deep lavender-blue flowers with contrasting yellow stamens and attractive light green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ ounce., \$2.25.

GREVILLEA

Robusta (Australian Silk Oak). 3,000 s. Popular for specimen or combination work. Tr. pkt., 20c; 1 oz., 75c.

MISCELLANEOUS ANNUALS—(Continued)

GYPSOPHILA

ELEGANS. 24,000 s. A fast growing catch-crop.

***Covent Garden Market.** Our fine large flowered standard strain.
1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.60; 5 lbs., \$6.00.

London Market. The largest flowered and longest stemmed variety. 1 oz., 25c; 4 ozs., 60c; 1 lb., \$1.75; 5 lbs., \$6.50.

Paris Market. Medium sized flowers.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.00; 5 lbs., \$4.50.

Carminea. Same as above but a bright carmine-pink.
Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 75c.

Crimson. Carmine-crimson. Tr. pkt., 15c; 1 oz., 25c; 4 oz., 75c.
For *hardy Gypsophila*, see page 21.

IMPATIENS

A considerably widened field of usefulness is accorded this already fine winter pot plant by the advent of the new dwarf Sultani strains listed below. (See photo on opposite page.) A July or August sowing of this dwarf stock makes fine dwarf and compact 3 or 4 in. pot plants by winter. Very free flowering.

***Dwarf Sultani Bright Carmine.** 70,000 s. A dwarf form of this well known variety. 4 in. pot plants reach a height of about 6 in. and flower very profusely. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.15.

***Dwarf Sultani Mixture.** 70,000 s. A bright mixture of colors in this new dwarf class. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.00.

Sultani. 20,000 s. 18 in. Bright rose. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Holsti Liegnitzia. Free flowering vermilion-red. Tr. pkt., 50c.

Holsti Hybrids. 50,000 s. Mixture. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Oliveri. 24 in. Rosy lilac. Tr. pkt., 75c.

LUPINE (Annual)

The popular early spring crop of Lupines comes from a late summer sowing in pots. When well started, they can be hardened off and kept in cold frames until Mum beds are cleared.

***GIANT KING.** 1300 s. The preferred strain for greenhouse cut flower work. Long-stemmed and large flowered.

***Oxford Blue (Dark Blue).** Standard rich deep blue. **Sky Blue.**

Heliotrope. A pleasing rosy lavender. **White.**

Mixture of all colors.

Prices on above, each: Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.35.
For perennial or *Polyphyllus Lupine*, see page 22.

MARIGOLD

For mid-winter cutting Marigolds are hard to beat. Free flowering with bright positive colors and growth that isn't affected by dark mid-winter weather are strong points in their favor.

WINTER FLOWERING. 9,000 s. The following are "short day" varieties that flower only in the short days of winter. The sowing season is, therefore, limited in our latitude, beginning end of July to first part of December. Plant on bed 10 x 12 in., 25 ft. on end of bench is ample for most retail growers.

***Australian Tree.** The standard variety. Rich mahogany-red with golden yellow crest. 95% double. Tr. pkt., 20c; $\frac{1}{2}$ oz., 60c; 1 oz., \$1.00.

Lieb's Strain. Very similar to above. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$2.00.

Lieb's Winter Sunshine. Large flowered clear yellow. Tr. pkt., 50c.

GIANT AFRICAN. 10,000 s. For December flowering sow in mid-August and transplant in shallow beds. This runs them up into a fine single stemmed crop on 18 in. stems.

***All-Double Orange.** The standard large flowered variety.

***All-Double Lemon.**

Prices on above, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

***All-Double Mixture.** Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

MIGNONETTE

27,000 s. Sow seed in pots in August and plant out in a Carnation temperature 10 x 12. Disbudding and supporting produce fine long-stemmed flowers.

***Ball Strain.** Selected for earliness and full spikes of large white flowers. $\frac{1}{2}$ tr. pkt., 60c; tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

New York Market. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$1.50.

MYOSOTIS (Forget-me-not). 44,000 s.

***Ball Early.** Ours is the original and true WINTER FLOWERING variety. An August sowing will flower continuously from November on thruout the dark winter months, 8 to 10 in. stems. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.85.
for other *Myosotis*, see page 23.

NASTURTIUM

175 s. The following varieties are of the double climbing type that, from an August sowing, will produce an abundance of brightly colored flowers thruout the winter months. Plant 12 in. apart in a well exposed location and with substantial support.

Golden Gleam. The original golden yellow double variety.

Scarlet Gleam. A brilliant color.

Gleam Hybrids. A very complete mixture.

Prices on above, each: 1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.00.

STATICE

Our annual Statice is grown for us by a specialist that insures us first-class strains of high germination.

Bonduelli Superba. 350 seed heads per ounce. Similar to Sinuata class. Large yellow flowers. Tr. pkt., 15c; 1 oz., 30c; 1 lb., \$3.35.

Sinensis. 17,000 s. 18 in. Pure white with canary-yellow. Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50.

Suworowi (Russian or Rat Tail Statice). 12,000 s. An October sowing carried along in pots and planted after Mums will produce fine long spikes in early spring. A fine early cut flower item. Tr. pkt., 15c; 1 oz., 60c; 4 ozs., \$1.90.

SINUATA. 350 seed heads per ounce. Grown extensively in the south.

***Market Grower's Blue.** Fine even deep blue. Excellent.

Kampf's Tall Improved. Standard long-stemmed blue.

True Blue.

***Lavender Queen.** A very pleasing and bright pastel lavender.

Rosea Superba. Rosy lavender.

Snow Witch. Improved, white.

***New Hybrids Mixture.** A very attractive and varied mixture.

Prices on above, each: Tr. pkt., 15c; 1 oz., 25c; 1 lb., \$2.50.

For perennial *Statice*, see page 24.

VENIDIUM

65,000 s. Sow in August or September for a spring crop.

Fastuosum. Brilliant orange with dark center.

Ball Hybrids. A very interesting and varied array of colors.

Prices on above, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

WALLFLOWER

(Annual). 14,000 s. Choice richly fragrant spikes flowering in spring. A circular outlining our method of handling this attractive crop is enclosed with every order for seed.

***Gold Standard.** Deep rich golden yellow; the best color.

Golden Yellow Flaked Brown.

Prices on above, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c.

For other *Wallflower*, see *Cheiranthus*, page 19.

MISCELLANEOUS PERENNIALS



An easily grown useful hardy perennial—
Achillea Filipendula, Parker's variety

ACHILLEA

Some as noted are exceptionally valuable for summer cutting.

***Filipendula Parker's Variety** (*Eupatorium*). 225,000 s. 4 ft. Fall flowering. Large golden yellow umbels. Perfectly hardy with us; and if allowed to fully open, can be dried. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.25.

***The Pearl** (*Ptarmica*). 175,000 s. 30 in. The standard double white for cutting. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

Tomentosa Aurea. 190,000 s. 6 to 8 in. Finely serrated golden yellow foliage. Tr. pkt., 50c; 1/8 oz., \$1.25.

ACONITUM

Fischeri (*Monkshood*). 9,500 s. 3 ft. Deep blue flowers in dense spikes. Sow seed outdoors in the fall and allow to stand over winter for good germination. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

(R) ALYSSUM

The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

***Saxatile Compactum**. 40,000 s. 12 in. Flowers early May. Rich golden yellow. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 85c.

Saxatile Silver Queen. (*Citrinum*). Same as above but a light lemon yellow. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

ANCHUSA

The following three varieties are perfectly hardy with us.

***(R) Barrelieri**. 5500 s. 15 in. Very fine Forget-me-not blue rock garden plant. Flowers middle to end of May. Improves *Myosotidiflora* in more vigorous growth and freer flowering. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Myosotidiflora. 10,500 s. 12 in. May flowering. Forget-me-not blue. Tr. pkt., 50c; 1/4 oz., \$1.40.

ITALICA. 1100 s.

Grandiflora Picotee Blue. Attractively striped white.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

ANTHEMIS

Kelwayi (*Hardy Marguerite*). 85,000 s. 3 ft. Yellow Daisy flowers produced thruout summer. Tr. pkt., 15c; 1 oz., 50c.

(R) AQUILEGIA (Columbine)

15,500 s. Introduction of several new, large flowered varieties in attractive new colors has widened the use of this old garden favorite. Excellent rock garden and border material.

***Longissima Hybrids**. Brings us the graceful long spurs of *Longissima* in a variety of attractive shades. Originator pkts. only, 50c.

Alpina. 2 ft. Blue. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Silver Queen (*Chrysantha*). Long-spurred white. Prefer Snow Queen. Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$1.90.

Jaetschaui. Yellow with long red spurs. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.15.

***Longissima**. Delicate pale yellow with extra long (4 in.) spurs. Quite distinctive and richly fragrant. Tr. pkt., 75c; 1/8 oz., \$2.25.

COERULEA. The long-spurred large flowered type.

Blue (*Rocky Mountain Columbine*). Sky-blue with white corolla. Prefer following. Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$1.85.

***Mrs. Nicholls**. Same as above but considerably larger flowered and deeper, brighter color. Tr. pkt., 50c; 1/8 oz., \$1.25.

***Snow Queen** (*Candidissima*). 18 in. Finest pure white variety. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50.

***Crimson Star**. Deep blood-red with white corolla. Very attractive. Tr. pkt., 50c; 1/8 oz., \$1.20; 1 oz., \$7.00.



Aquilegia Long Spurred Crimson Star
Dark crimson and white are the distinctive contrasting colors of this variety.

Rose Queen. Rose shades with white corolla; varies in color. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

***Mrs. Scott Elliott's Hybrids**. The popular long-spurred mixture. Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.15.

Mixture of all colors in this long-spurred class. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.90.

(R) ARABIS (Rock Cress)

150,000 s. The following are fully hardy and flower with us end of April—one of the earliest of our perennial trials.

***Alpina Snowcap**. 6 in. Improves the following with a much more dwarf and compact habit. Excellent. Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$2.00.

Alpina. 12 in. White. Tr. pkt., 15c; 1 oz., 50c.

MISCELLANEOUS PERENNIALS—(Continued)

ARMERIA

Maritima (Statice Armeria). 17,500 s. 12 in. Lilac-rose. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

ASCLEPIAS

Tuberosa. 4500 s. Fine orange for cutting. Requires well drained location. When difficulty is found in germination, freezing over winter usually produces results. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

ASPARAGUS

Verticillatus. 600 s. A valuable completely hardy source of summer green material. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.85. For *Asparagus Sprengerii* and *Plumosus*, see page 16.

(R) ASTER (Hardy)

Very nice material for rock garden work as well as being tall and large enuf for cutting. Very hardy and June flowering.

***Wartburg Star (Subcoeruleus).** 15,000 s. 18 in. Some lighter than following, larger, and longer stemmed. Tr. pkt., 50c; ½ oz., \$2.25.

Dark Beauty (Alpina). 26,000 s. 12 in. Single deep blue. Tr. pkts. only, 50c.

Novi-Belgi. 90,000 s. New Hybrids. Fall flowering. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

AUBRETIA

Large Flowered Hybrids (Monarch strain). 150,000 s. 6 in. This new strain shows a particularly wide and bright color mixture of blue, lilac, mauve, and pink shades. Fine spring flowering plant for rockery and edging work. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

For *Baby's Breath*, see *Gypsophila*, page 17; also *Euphorbia*, page 21.

BAPTISIA

Australis (False Indigo). 1700 s. Sprays of pea-shaped indigo-blue flowers. 3 ft. Tr. pkt., 15c; 1 oz., 45c.

(R) BELLIS

Perennis (Double English Daisy). 100,000 s. 6 in. Well established flowering plants for spring sales are from a fall seedling carried along in frames with Pansies and Violas. Following varieties are of the large flowered double MONSTROSA type.

Red. Deep red. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

Rose. Deep rose; **White.** Each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Mixture of all colors in this Monstrosa type. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For *Bleeding Heart*, see *Dielytra*, page 20.

BOLTONIA

Latisquama. 95,000 s. 4 to 5 ft. Delicate pink. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

CAMPANULA

(R) **CARPATICA.** 350,000 s. 12 in. Dwarf perennial.

Blue, White and Hybrid Mixture. A strain containing many new colors in this dwarf class.

Each: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

MEDIUM CALYCANthemA (CUP-AND-SAUCER TYPE). 120,000 s. 3 ft. Biennial.

Dark Blue Light Blue Rose White

Each: Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.45.

Mixture. Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.25.

MEDIUM SINGLE (CANTERBURY BELLS). 135,000 s. 3 ft. Biennial, flowering second season from seed.

Blue Lilac Rose White and Mixture.

Each: Tr. pkt., 15c; 1 oz., 40c.

PERSICIFOLIA. 340,000 s. 30 in. Perennial. A very generally satisfactory Campanula.

White Blue Mixture

Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

PYRAMIDALIS (CHIMNEY CAMPANULA). 250,000 s. 5 ft. Erect pyramidal habit.

Mixture. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

For *Perennial Candytuft*, see *Iberis*, page 22.

CARNATION

GRENADIN (HARDY CARNATION). 14,000 s. 20 in. Good for cutting but needs winter protection.

Golden Sun. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

Pink. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.50.

Red. Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.25.

White. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Mixture.** Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.

CATANANCHE

Coerulea. 16,000 s. 30 in. Everlasting light lavender-blue Centaurea-like flowers produced freely first year from seed. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CENTAUREA

Montana. 1600 s. 24 in. Large Cornflower-blue flowers. Tr. pkts., 15c; 1 oz., 50c.

For *Annual Centaurea Cyanus*, see page 16.

(R) CERASTIUM

42,000 s. Very fine May flowering white edging and rockery plant. Silvery white foliage. Perfectly hardy.

***Tomentosum.** 10 to 12 in. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CHEIRANTHUS (Wallflower)

19,000 s. 18 in.

***Golden Bedder.** Large deep golden yellow. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Allioni (Siberian Wallflower). Free flowering brilliant orange. Tr. pkt., 10c; 1 oz., 30c.

For *Annual Wallflower*, see page 17.

CHRYSANthemUM

Very colorful for fall landscape work; perfectly hardy and quite free flowering. Watch frost dates, tho.

Indicum. 77,000 s. Attractive large flowered double and semi-double types. Flowers late September or early October. Tr. pkts., 50c; ½ oz., \$1.25.

Korean Hybrids. 60,000 s. Single and semi-double types. Very attractive color mixture. Flowers first part of October. Tr. pkt., \$1.00; ½ oz., \$2.00.

For *Chrysanthemum Leucanthemum*, see Daisy on this page.

For *Columbine*, see *Aquilegia*, page 18.

***Japonicum. (Japanese Mountain or Cascade type).** A very free flowering single seedling strain; hardy and flowers first season from seed. Our strain is a very strong growing one and with proper pinching, and staking, can be trained into various decorative shapes including the beautiful "Cascade" type. With two or three pinchings in early summer, makes a very decorative and free flowering garden plant also. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.

COREOPSIS

GRANDIFLORA. 11,000 s. The two varieties listed are of the new large flowered class. Fine material for summer cutting.

***Sunburst (New Gold).** A fine semi-double strain. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.

***Mayfield Giant.** Extra large deep golden yellow. Single. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 65c.

DAISY (Chrysanthemum Leucanthemum)

Excellent perennial cut flower material. Can be grown outdoors—perfectly hardy—or forced either in cold frames or indoors in early spring. Following listed in order of flowering season.

Elder. 65,000 s. Earliest flowering—early June. Tr. pkt., 15c; 1 oz., 75c.

***June Marguerite.** 40,000 s. Large June flowering variety. Tr. pkt., 15c; 1 oz., 75c.

***Mayfield Giant.** 21,000 s. Quite large flowered, end of June. Tr. pkt., 20c; 1 oz., 80c.

Alaska. 21,000 s. The standard Shasta Daisy. July. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., \$1.00.

MISCELLANEOUS PERENNIALS—(Continued)

DAISY—(Continued)

Double Fringed (Diener's). 18,000 s. Comes around 50% good double types that should be propagated by division. Tr. pkt., 50c; 1/8 oz., \$1.00.

Conqueror. 21,000 s. Giant late white. Late July. Tr. pkt., 20c; 1 oz., 80c.

English Daisy, see Bellis, on page 19.

DELPHINIUM 10,000 s.

A spring greenhouse crop now in flower (May) further proves to us the superiority of these Vetterle & Reinelt strains. Flowers over 3 in. across are common—and striking indeed, particularly in white! Early summer sowings produce strong flowering plants next season.

THREE NEW PACIFIC HYBRIDS. (Originator's descriptions).

***Black Knight Series.** The darkest of them all. Huge individual flowers of beautiful form with heavy velvety texture.

***Blue Jay Series.** A true blue color which is so rare in nature and difficult to obtain. A striking medium blue with dark bee.

***Round Table Series.** All the colors of the "Knights and their Ladies" Series including many not yet introduced. Invaluable for show purposes.

Prices on above three (Originator's seed): Tr. pkt., \$1.25; 1/8 oz., \$3.00.

***Galahad Series (New).** Described by the originator as an improvement over Giant Pacific Clear White in purity of color, size of flowers, and general trueness of strain. The *finest white Delphinium in existence from seed.* (Originator's seed only). Tr. pkt., \$2.00; 1/8 oz., \$4.00; 1/4 oz., \$7.00; 1 oz., \$24.00.

Lancelot Series (New). Clear lilac self; extra large flowered and a fine pastel shade, color variable. Tr. pkt., \$2.00; 1/8 oz., \$4.00; 1/4 oz., \$7.00; 1 oz., \$24.00.

***Blue Shades.** Our most popular strain, a mixture of the originator's Light Blue and Dark Blue Shades.

Lavender Pastel Shades. A mixture of pastel lavender shades.

Violet Shades. Deep rich violet-blue colors with many contrasting white bees.

Pastel Shades. A very fine pastel mixture of pastel lavender and blue shades.

***Mixture.** A complete mixture of all above and many intermediate shades. A supremely fine complete mixture of Hybrid Delphinium. Prices on above **five only** each: Tr. pkt., \$1.00; 1/8 oz., \$2.00; 1/4 oz., \$3.50; 1 oz., \$12.00.



Giant Pacific White 9 months after sowing of seed. Some spikes!

***Clear White.** Excepting possibly the new Galahad Series listed above, the finest clear white Delphinium available from seed. Very large, clear, white flowers, double and semi-double set on long spikes. Forces very well. Tr. pkt., \$1.25; 1/8 oz., \$2.50; 1/4 oz., \$4.00; 1 oz., \$14.00.

OTHER VARIETIES.

***Belladonna Improved.** A carefully reselected strain of this standard light blue. Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.85; 1 lb., \$24.00.

***Lamartine.** Fairly deep, extra bright marine-blue. An outstanding strain for color and excellent cut flower habit. Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$5.00.

Bellamosum Improved. A reselected strain. Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.85; 1 lb., \$24.00.

Belladonna. The original or regular strain. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.60.

***Blackmore and Langdon Hybrids.** A fine free flowering long-stemmed Hybrid strain for cutting. Tr. pkt., 50c; 1/4 oz., 90c; 1 oz., \$3.00; 4 ozs., \$9.00.

Wrexham or Hollyhoek Strain. Extra large tapering spikes. Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$5.00.

Gold Medal Hybrids. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.50.

(R) DIANTHUS 28,000 s.

Allwoodi Alpinus Mixed. 8 to 10 in. 1 1/2 in. single flowers in shades of pink. Early June flowering and perfectly hardy. Tr. pkt., 35c; 1/4 oz., \$1.10.

***Deltoides Erecta.** 6 in. June flowering. A dwarf compact Maiden Pink. Bright red flowers produced very freely. Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.50.

Knappi. 12 to 15 in. June flowering. Small clusters of single yellow flowers at tip of each branch. Perfectly hardy with us. Tr. pkt., 50c; 1/8 oz., \$1.60.

***Loveliness.** 20 in. Large, freely produced, light lavender flowers, quite fragrant and with highly fringed and curled petals. Tr. pkt., 50c; 1/8 oz., \$1.25.

***Latifolius Atrocecinneus.** 12 to 15 in. Produces many bright crimson semi-and double miniature Rose-like flowers, first season. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 85c.

Plumarius, Single Mixture (Clove Pink). 20 in. Early, free flowering, and sweet scented. Tr. pkt., 15c; 1 oz., 35c.

Neglectus, Rose Cushion. 6 in. Very attractive neat rock plant. Many small rose-pink flowers extending above a dense mat of foliage end of May. Perfectly hardy. Tr. pkt., 50c; 1/8 oz., \$1.50.

BARBATUS (Sweet William). 24 in. Early June flowering. Perfectly hardy, flowering second season from seed.

***Holborn Glory.** Striking combination of deep crimson with white. Tr. pkt., 15c; 1 oz., 50c.

***Newport Pink (Pink Beauty).** A particularly deep rich salmon-rose shade. Very attractive rich pastel. Tr. pkt., 15c; 1 oz., 50c.

Purple Beauty. Bright deep purple. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Scarlet Beauty. Well named. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

White. Tr. pkt., 15c; 1 oz., 50c.

Single Mixture of all colors in this class.

Tr. pkt., 15c; 1 oz., 50c.

Double Mixture. Tr. pkt., 15c; 1 oz., 60c.

(R) ***Midget.** Very fine neat alpine and rock plant. 6 to 8 in. with dense heads of Sweet William flowers.

Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

DICTAMNUS

Fraxinella (Gas Plant). 1700 s. 30 in. Pink with dark veins. Good border plant. Sow seed in the fall and allow to stand outdoors over winter for good germination. Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.35.

DIELYTRA (Dicentra)

Spectabilis (Bleeding Heart). 1600 s. 32 in. Sow seed in fall and allow to stand outdoors over winter for good germination. Flowers second season from seed. Tr. pkt., 50c; 1/4 oz., \$2.75; 1 oz., \$9.50.

MISCELLANEOUS PERENNIALS—(Continued)

DIGITALIS

GLOXINOIDES (*Foxglove*). 180,000 s. 4 ft.
Purple, Rose, White, and Giant Shirley Mixture.
Each: Tr. pkt., 15c; 1 oz., 50c.

DORONICUM

18,000 s. (Leopard's Bane). Attractive yellow Daisy-like flowers on good stems for cutting.
***Bunch of Gold (*Pardalianches*).** 30 in. Long-stemmed and extra free flowering. Fine. Tr. pkt., 75c.
Caucasicum. 2 ft. The standard variety.
Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.
For *Edelweiss*, see *Leontopodium* on next page.

ECHINOPS

Ritro (Ornamental Thistle). The largest of the ornamental Thistles. Flowers $1\frac{1}{2}$ to 2" in diameter with a fine blue color.
Tr. pkt., 15c; 1 oz., 40c.

EREMURUS

Species Mixed. Tall stately flower spikes 4-8 ft. in shades of pink and white. Hardy in Chicago if in a well drained location and with protection. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

ERYNGIUM

Bourgati (New). 20 to 24 in. June flowering. Bright steel blue heads and deeply cut veined leaves are quite attractive. (Sold out until new crop in Fall.) Tr. pkt., 50c.
Amethystinum. 19,000 s. 3 ft. Large Amethyst-blue.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.85.

EUPHORBIA

Corollata (*Wild Baby's Breath*). 8700 s. 24 in. Large Gypsophila-like pure white flowers. Thrives on very poor soil.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c.
Polychroma. 15-20 in. Very compact symmetrical plant producing brilliant yellow bracts of leaves at tip of branches middle of May. Perfectly hardy with us. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.
Myrsinites. Attractive succulent-like silvery green growth; semi-prostrate in habit. Each branch produces a brilliant yellow bract of leaves in May. Perfectly hardy and vigorous growing with us. 6-8 in. tall. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25.
For **Flax**, see *Linum*, page 22.
For **Feverfew**, see *Matricaria*, page 23.
For **Foxglove**, see *Digitalis* on this page.

FREESIA

Refracta Alba. Attractive white Freesia from seed; requires plenty of heat to germinate. Tr. pkt., 20c; 1 oz., 60c.

GAILLARDIA

GRANDIFLORA. 9500 s. The following strains, except the dwarf Goblin, altho varying some in color, are all excellent cut flower sorts—large flowered and borne on long, strong stems.
***Chloe.** Fairly large flowered clear yellow with yellow center. Comes very true, but germination somewhat slow and irregular.
Tr. pkt., 35c.
***Dazzler.** The standard fine cutting strain.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50.
***Monarch Strain.** A very superior mixture of large full petaled flowers with an unusually bright color mixture.
Tr. pkt., 30c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
Burgundy. Deep shade of wine red.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
Maxima Aurea. Yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.
The King. Large deep red flowers edged gold.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
Oculata New Hybrids. Mixture of pastel shades containing many attractive original colors. Good long stems for cutting.
Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.
Portola Hybrids Mixed. Standard hybrid mixture.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.45.
Goblin. Dwarf strain for decorative bedding and border work. 12 to 14 in. Forms very attractive compact plants.
Tr. pkt., 50c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.
For *Gas Plant*, see *Dictamnus*, on preceding page.

GEUM

7000 s. 24 in. Fine for cutting or garden decoration.
Lady Stratheden. Double golden yellow.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.65.
Mrs. Bradshaw. Double glowing red.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
(R) Borisii. 12 to 15 in. (true stock). A very attractive early May flowering species. Brilliant single orange-scarlet flowers. Perfectly hardy border or rock garden subject.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

GYPSOPHILA

34,000 s. A planting of several varieties of hardy Gyp is interesting and valuable for outdoor summer cutting.
***Pacifica.** 42 in. Flower size of Paris Market annual with an attractive shade of bright pink. Nice.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.
***Oldhamiana.** 30 in. Very fine dense heads of feathery light rose-pink flowers. Flowers first season from an early sowing. October flowering—watch frost dates.
Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85.
PANICULATA. The regular white hardy Gyp. Note that double grafted varieties like Bristol Fairy are NOT available from seed.
***Double Snow Flake.** 40 in. An improved double hardy Gyp.
Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.85.
Single White. Tr. pkt., 15c; 1 oz., 35c.
(R) REPENS. 6 in. An attractive hardy rock garden plant.
Rose. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.
White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.
For *Annual Gyp.*, see page 17.

(R) HELIANTHEMUM

Mutabile (*Rock Rose*). 15,000 s. 8 to 10 in. Very attractive dwarf evergreen rock plant. Tr. pkt., 20c; 1 oz., 80c.

HESPERIS

Matronalis (*Sweet Rocket*). 15,000 s. 3 to 4 ft. Red.
Tr. pkt., 10c; 1 oz., 25c.

HEUCHERA

Sanguinea (*Coral Bells*). 750,000 s. 24 in. Crimson. An attractive garden plant with some value for cutting.
Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50.



There are possibilities in perennial Gaillardia that are worth working out.

MISCELLANEOUS PERENNIALS—(Continued)

HOLLYHOCK

- Imperator.** 2700 s. Choice double fringed mixture.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.
Allegheny Mixed. 2700 s. Single and semi-double types.
Tr. pkt., 15c; 1 oz., 50c.
CHATER'S DOUBLE. 3100 s. The standard double Hollyhock strain.
Chamois, Deep Rose, Lilae Beauty, Newport Pink, Searlet, Sulphur Yellow, White, and Mixture of all colors.
Each: Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

(R) IBERIS 11,500 s.

- Gibraltarica.** Large flowered lilac.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.
Sempervirens. 12 in. Flowers end of May. White. Seedlings flower second season. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

LATHYRUS

- LATIFOLIUS** (*Hardy or Everlasting Sweet Pea*).
550 s. Perfectly hardy abundant source of short-stemmed flowers.
Pink Beauty. White Pearl. Red. Mixture.
Each: Tr. pkt., 15c; 1 oz., 40c.

LAVANDULA

- Vera** (*True Sweet Lavender*).
32,000 s. Old-fashioned garden plant. Seed irregular and slow in germinating. Tr. pkt., 15c; 1 oz., 50c.

LEONTOPODIUM

- Alpinum** (*Edelweiss*). 275,000 s. Attractive rock garden plant in cool climates. Small greenish white leaves.
Tr. pkt., 50c; ¼ oz., \$1.00.

LIATRIS (*Blazing Star*)

- 9500 s. Excellent cut flowers, long decorative, bold, spikes. Used very effectively in basket arrangements.
***Pycnostachya.** Extra long-stemmed—3 to 5 ft. with long 15 to 18 in. flower spikes of rosy purple. Finest cut flower kind.
Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.
Spicata. Not quite so long-stemmed or with as long flower spikes as above; purple. Prefers a damp low location.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.
Seariosa, Rosy Purple. Extra large individual flower heads on long, loosely set spikes. Tr. pkt., 30c; ¼ oz., 75c.

***Seariosa White.** A very fine pure white form of above. Long closely set flower spikes. Excellent cut flowers or decorative plant. Our strain comes about 85% true to type. Available late summer. Tr. pkt., 50c; ¼ oz., \$1.35; 1 oz., \$4.75.

LILIES FROM SEED

The new White Queen has added new importance to seed-produced Lilies. In addition to low initial cost (no bulb bills) and absolutely disease free stock, this new strain flowers 15 months from seed and with flowers fully equal to fine Erabu specimens. Used considerably as a cut flower strain. A chapter in the "Red Book," "Lilies From Seed," treats fully our experience in handling this crop.

***White Queen.** 8200 s. The largest flowered *Pure White* seed propagated Lily we know of. A fine variety.
½ tr. pkt., 60c; tr. pkt., \$1.00; ⅛ oz., \$1.75; ¼ oz., \$3.75.

- Philippinense Formosanum, Giant Flowered.** 8200 s. An improved form of the original stock of Philippine Lily.
Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25; 4 oz., \$10.00.
Philippinense Formosanum Improved. 8200 s. The original Philippine Lily.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.
Regale (*Regal Lily*). 6500 s. Pink with primrose center.
Tr. pkt., 15c; 1 oz., 50c.

LINUM

- Perenne** (*Perennial Flax*). 8500 s. Blue.
Tr. pkt., 15c; 1 oz., 40c.

LOBELIA

The two following are perfectly hardy, very showy garden plants usually grown in damp low locations.

- Cardinalis** (*Fulgens*). 725,000 s. (Cardinal Flower). 36 in. Produces long tapering spikes of cardinal-red flowers.
Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$3.00.
Syphilitica. 1,750,000 s. 2 to 3 ft. Attractive blue spikes.
Tr. pkt., 25c; ¼ oz., 90c.

LUNARIA

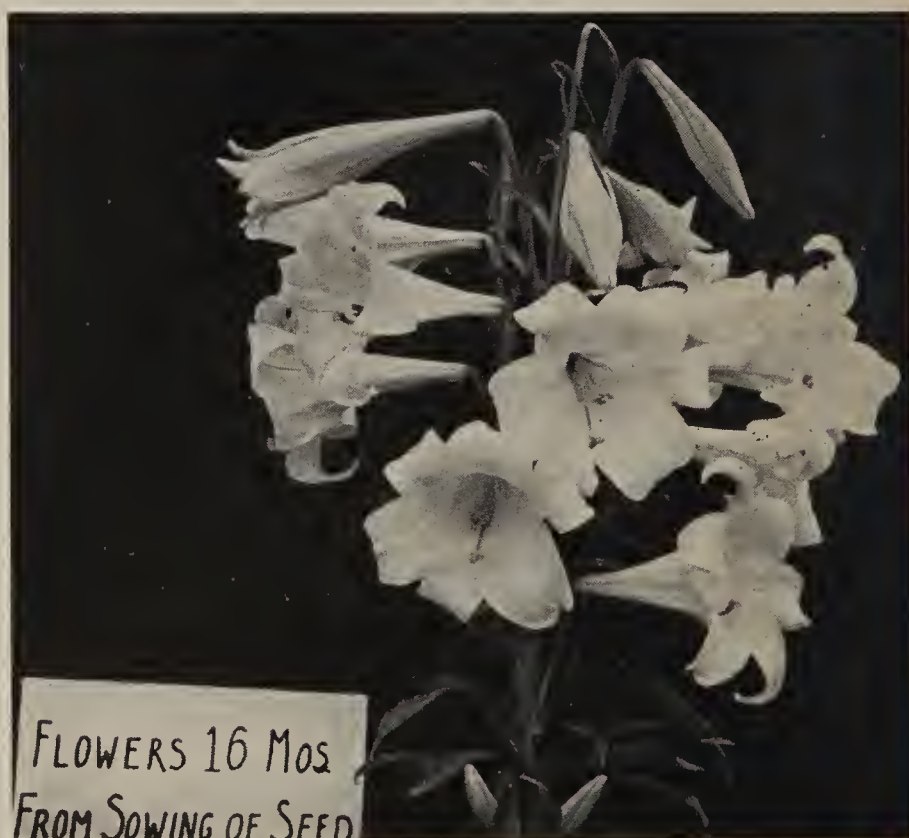
- BIENNIS** (*Honesty or Money Plant*). 1500 s.
White, Crimson, Mixture.
Each: Tr. pkt., 15c; 1 oz., 45c.

LUPINUS

- POLYPHYLLUS** (*Hardy Lupine*). Fine cutting material. Requires a well drained location and thrives best in cool climates.
***Russell Strain.** 1000 s. From all indications, this novelty is meeting all the originator's claims for it. For the home gardener and retail grower who wants a bed of Hardy Lupines for cutting, the new Russell Strain is by all means the one to use. Unusually long closely set flower spikes and the widest range of attractive colors found in Hardy Lupines.
Reselected Stock (Originator's packets) 20 seeds, 20c; 150 seeds, \$1.00; 350 seeds, \$2.00.
Grown from Originator's Stock. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00.
MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 s.
Chocolate Soldier. Yellow shading to chocolate.
Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.25.
Dark Blue. Tr. pkt., 15c; 1 oz., 50c.
Luteus. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.
Rose. Tr. pkt., 15c; 1 oz., 50c.
White. Tr. pkt., 15c; 1 oz., 30c.
***Harkness Regal Mixture.** The standard fine hybrid mixture containing all colors in this class.
Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.65.
For *Annual Lupine*, see page 17.

LYCHNIS 64,000 s.

- Alpina.** Rose. 12 in. Nice dwarf rock garden plant.
Tr. pkt., 25c; ⅛ oz., 85c.
Chalcedonica. 36 in. Scarlet. Tr. pkt., 15c; 1 oz., 50c.



Lily—White Queen; fine for cutting.

MISCELLANEOUS PERENNIALS—(Continued)

MATRICARIA (Capensis Feverfew)

145,000 s.

***Ball Double White.** Since introducing this strain in '34, demand for it is constantly increasing as a standard greenhouse and outdoor cut flower crop. Plants from a midsummer sowing transplanted indoors in November produce a fine spring greenhouse crop. Differs from ordinary cutting propagated strain in having smaller and more compact completely double flowers that hold up much better in shipping and handling. Responds readily to additional lighting for forcing.
1/2 tr. pkt., 30c; tr. pkt., 50c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.

Double Golden Ball. 10 in. Dwarf, semi-double yellow.
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.
For *Monkshood*, see *Aconitum*, page 18.

MYOSOTIS (Forget-me-not)

42,000 s.

***Blue Bird (Oblongata).** 12 in. Standard deep blue Forget-me-not for Spring greenhouse flowering.

Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.75.

Palustris. True Marsh Forget-me-not. Hardy with us. Blue.

Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.75.

ALPESTRIS. Biennial.

***Royal Blue (Indigo Blue).** 12 in. Deep rich blue.

Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.35.

Pink Bouquet (Stricta Grandiflora). Medium deep pink shade; Compact upright habit. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

Blue Basket. 12 in. Deep blue. More spreading habit.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

White. 12 in. Spreading habit. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., 90c.

For other *Myosotis* including our *Ball Early*, see page 17.

NEPETA

Mussini. 52,000 s. 12 in. Light blue. June flowering Catnip.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

For *Painted Daisy*, see *Pyrethrum*, this page.

For *Oriental Poppy*, see this page.

PHLOX (Perennial)

Hybrid Mixture (Decussata). 2500 s. 3 ft. Our strain contains many new large flowered, brilliantly colored types.

Tr. pkt., 25c; 1/4 oz., 45c; 1 oz., \$1.60.

PHYSALIS

Francheti (Chinese Lantern Plant). 18,000 s. Large decorative orange seed pods. Tr. pkt., 15c; 1 oz., 60c.

PHYSOSTEGIA

Virginica. 16,000 s. 4 ft. Rosy lilac.

Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.50.

For *Pinks*, see *Dianthus*, page 20.

PLATYCODON

GRANDIFLORUM (Tufted Harebell or Balloon Flower). 28,000 s. 24 in. Very attractive for spring sales, perfectly hardy.

White and Blue, a clear deep violet-blue.

Each: Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

POPPY

ORIENTALE (Oriental Poppy). 140,000 s. Altho not suited to shipping or much handling, Oriental Poppies are unsurpassed for brilliant colors. If cut in the bud stage, they last several days in water. Sow seed in pots and transplant into the field when small so as not to disturb the roots. Seed produced strains will vary some in color.

***Olympia.** A seed produced strain of this fine standard orange-scarlet variety. Perfectly hardy, of course, and produces 50% true semi-double flowers. Some earlier flowering than following varieties. Originator's packets, 60c.

Beauty of Livermere. Dark oxblood-red.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.25.

Brilliant. 40 in. Vivid, fiery red.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Mrs. Perry. Fine salmon-rose. Tr. pkt., 35c; 1/8 oz., \$1.15.

Mixture of all colors in this class.

Tr. pkt., 20c; 1/4 oz., 40c; 1 oz., \$1.75.



The new *Primula Veris Colossea* above is rapidly finding its place in the pot plant field.

(R) PRIMULA

Vulgaris (True Yellow English Primrose). 19,000 s. 6 in.

Sow seed in the fall and allow to stand outdoors over winter.

Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.85.

Bulleisiana Hybrids. 130,000 s. 18 in. Bright mixture of colors.

Seed of irregular germination. Tr. pkt., 50c; 1/8 oz., \$1.15.

VERIS. 33,000 s. Especially the new large flowered *Colossea* has proven the usefulness of this class for spring pot plants and combinations, since they can be moved without harm while flowering. Plants lifted from outdoors in the fall will make specimen pot plants from February and March on. Also makes fine hardy border plants if given partial shade.

***Colossea.** Our trials of this new strain show a real improvement in flower size, new bright colors, and strong growth. Tr. pkt., 75c.

Kleyni. A particularly valuable hardy *Primula* because of extra long-stemmed and large flower heads. Easily forced in spring for pot plant work. 100 seeds, 40c.

***Giant Muustead Strain.** The standard strain for bedding. Not so tall as above strains; in shades of yellow.

Tr. pkt., 50c; 1/4 oz., \$1.50.

Polyanthus Mixture. Unwin's Strain. 12 in.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.15.

For other *Primula* varieties, see page 13.

PYRETHRUM

The Roseum type contains the standard cut flower varieties.

Parmicaeflorum. 340,000 s. 5 in. Very dwarf finely feathered silvery white foliage. Tr. pkt., 50c; 1/8 oz., \$1.15.

Parthenifolium Aurea, Excelsior. 325,000 s. 3 in. Same as above but foliage distinctly yellow-green and dwarf.

Tr. pkt., 35c; 1/8 oz., \$1.00.

Uliginosum. 62,000 s. 3 ft. Single white, Daisy-like flowers.

Tr. pkt., 35c; 1/4 oz., 90c; 1 oz., \$3.25.

ROSEUM (Painted Daisy). 18,000 s. The standard hardy cut flower class.

***Semi-Double Mixture.** An excellent strain that requires two year old clumps to produce its fully double flowers.

Tr. pkt., 50c; 1/4 oz., \$1.25; 1 oz., \$3.85.

***James Kelway.** Fine dark red cut flower variety.

Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$2.85.

Atrosanguineum. A popular dark crimson strain.

Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

Robinson's Hybrids. Large single mixture.

Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.00.

MISCELLANEOUS PERENNIALS—(Continued)

RUDBECKIA

Purpurea. (Echinacea). 7000 s. 4 ft. Reddish purple.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

SALVIA

Patens. 3800 s. 30 in. Navy blue hardy Salvia.
Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

SAPONARIA

Ocymoides. 5500 s. 12 in. Trailing rose; hardy rock plant.
Tr. pkt., 20c; 1 oz., 60c.

SCABIOSA

2400 s. Excellent perennial cut flower material. Larger flowered than the popular annual form, perfectly hardy, and early flowering. Seed germination sometimes irregular.

Columbaria Lavender. Delicate color.

Columbaria Pink. Orchid-pink shade.

Caucasica Perfecta. Large flowered improved form of this lilac-lavender strain. Each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Caucasica, House Hybrids.** Shades of lavender and blue. Use this strain for a small bed of hardy cutting Scabiosa.
Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.85.

Fischeri. 30 in. rounded bushy plants. Flowers medium-sized and a bright lilac-lavender color. Very free flowering decorative plant as well as producing plenty of cut flower material. Perfectly hardy with us. Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.00.

(R) SEDUM

700,000 s. A very excellent fully hardy rock garden family; the following are easily propagated from seed and come true.

***Acre.** 3 in. A very nice extra dwarf evergreen. Small light yellow flowers produced in June account for its common name—Golden Moss. Very strong hardy grower.
Tr. pkt., 25c; ⅛ oz., 75c.

***Aizoon.** 4 in. Attractive dwarf form, bright yellow with contrasting reddish brown foliage. Tr. pkt., 50c; ⅛ oz., \$1.35.

Kamtschaticum. 6 to 8 in. Very nice green foliage with yellow flowers. Tr. pkt., 50c; ⅛ oz., \$1.50.

Reflexum, Chameleon. Growth starts green, gradually turning buff or light brown shades as season advances. Bright yellow flowers in midsummer; 8 to 10 in. in fall. Tr. pkt., 50c.

***Bronze Carpet (Spurium Coccineum).** 4 in. Attractive deep bronze foliage. Tr. pkt., 35c; ⅛ oz., \$1.35.

SEMPERVIVUM (House Leek)

Perennial Mixture. 325,000 s. Tr. pkt., 35c; ⅛ oz., \$1.35.

SPERGULA

Pilifera. 25,000 s. per ½ ounce. Rounded compact hard growth; small white flowers in June. Attractive for planting between stones or for borders. Partially hardy in our latitude.
Tr. pkt., 50c; ⅛ oz., \$1.50.

STATICE

Perennial Statice are very hardy, make good cut flower material and some as noted can be successfully dried and dyed.

Caspia. 175,000 s. 30 in. Seedlings flower second season. Lilac.
Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.25.

Dumosa. 19,000 s. 18 in. Dense clumps of silvery gray flowers produced second season from seed.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Tatarica (Incana). 13,000 s. 14 in. Small white flowers that may be dried. Tr. pkt., 15c; 1 oz., 65c.

***Latifolia (Sea Lavender).** 40,000 s. 30 in. Standard blue perennial Statice. Very hardy and may be dried.
Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.35.

Perezi. 14,000 s. Flowers in large lavender heads first year from seed, but not completely hardy with us.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Puberula. 5200 s. 8 to 10 in. A dwarf form with flower heads similar to S. Latifolia. Flowers second season.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

For *Annual Statice*, see page 17.

STOKESIA

Cyanea. 3300 s. 16 in. Large blue flowers.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

For *Sweet William* see *Dianthus Barbatus*, page 20.

THALICTRUM

Dipterocarpum. 12,000 s. 3 to 4 ft. Early June flowering. Rosy purple clusters of flowers good for cutting or garden decoration. Flower second season with us.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Adiantifolium. A dwarf form—18 in.—and with fine textured foliage not unlike *Adiantum* fern; yellow flowers.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Aquilegifolium. 40 in. Shades of lilac and mauve.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

TRITOMA

Mirabilis Hybrids. 20,000 s. Yellow and orange shades. Varies.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

TROLLIUS

LEDEBOURI (Globe Flower). 8000 s. Good cutting and decorative plants. Sow seed in fall and allow to stand outdoors over winter for good germination.

Golden Queen. 3 to 4 ft. A fine early large orange variety.
Tr. pkt., 50c; ¼ oz., \$1.40.

Orange. 24 in. Tr. pkt., 50c; ¼ oz., \$1.50.

TUNICA

Saxifraga. 150,000 s. 8 to 10 in. Small rosy lilac flowers produced first season from seed. Tr. pkt., 15c; 1 oz., 60c.

VALERIANA

Rubra. 13,000 s. 36 in. Deep crimson. Good for cutting.
Tr. pkt., 15c; 1 oz., 60c.

VERONICA

250,000 s.

Longifolia. 30 in. Compact, dense spikes of blue flowers. Very graceful decorative garden plant.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

***Repens.** 1 to 2 in. Very dense flat growth, excellent for between stones planting or other purposes requiring a spreading flat growth. Covers itself with white flowers early in May.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

For *Wallflower*, see *Cheiranthus*, page 19.

For *Annual Wallflower*, see page 17.

VIOLA (Cornuta)

Miniature Pansies. Extra free-flowering and effectively used for bedding.

King Henry (New). A rich violet purple; most unusual habit, being compact, very bushy, and even. Flowers very freely.

Tr. pkt., 50c; ⅛ oz., \$1.25.

Apricot. Large flowered true apricot shade. Chantreyland better.
Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$3.00.

***Arkwright Ruby.** Maroon-scarlet with dark center. A highly attractive bright color. Tr. pkt., 35c; ⅛ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

Black Prince. Deep violet-blue. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Chantreyland.** Extra large flowered true apricot. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

G. Wermig. Rich violet-blue between Jersey Gem and Mauve Queen. Tr. pkt., 50c; ⅛ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

***Jersey Gem.** (True stock). Attractive large deep Cattleya. Tr. pkt., 50c; ⅛ oz., \$1.75; ¼ oz., \$3.25.

Johnny Jump Up. A tiny flowered, but unique species; purple, blue, and yellow shades. Tr. pkt., 50c; ⅛ oz., \$1.00.

***Lutea Splendens.** Clear golden yellow. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mauve Queen. Light cattleya. Very true. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Papilio. Blue and white combination. Extra dwarf and free flowering. Small flowered. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Puck. Purple with yellow wings and dark pencilings. Small flowered. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

White Perfection. Small, pure white. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

W. H. Woodgate. Bright violet. Tr. pkt., 50c; ⅛ oz., \$1.75.

Large-Flowered Mixture. Complete mixture of all large flowered varieties. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

THE
New

Mineral Maid

Successful Soilless Culture for Amateurs



Sand in top section of jar is kept constantly moistened with the plant food solution from bottom. The solution is carried up in the porous clay wick seen here.

A surprisingly successful adaptation of our commercial gravel culture. Grows flowering, foliage, or bulbous plants in homes, offices, and stores. Uniform automatic watering and feeding.

Special Introductory Offer

12 Complete Kits for \$9.00

12 kits (one in attractive colored counter display) 25 four-color circulars. All for \$9.00, f. o. b. West Chicago. To sell for \$18.00.



New Low-Priced Simplified Kit

Includes 5-inch flower pot, sand, wick, solution, complete with instructions. Retails for \$1.50. Cost to you, 75c.

WRITE for attractive new circular.

NO

We don't have an experiment station. But we are doing our level best through practical experiments and experiences to help solve your growing problems. To keep you posted on our findings, we offer the following publications gratis or for cost of printing as noted.

GROWER TALKS

By

By Geo. J. Ball and others

A monthly reminder of sowing and cultural dates. Also keeps you posted on what's new in varieties of annuals and cool house crops. Other topics of the day treated during recent months have been gravel culture, boiler efficiency, cost accounting, flexo-glass 'Mum' houses, etc. 25 to 30 pages monthly, illustrated. 30c per year; two years, 50c.

BALL RED BOOK

By Geo. J. Ball

When to sow Snaps? Can Stocks be flowered for Christmas? Marigolds? How to put up a cloth house? The answer to these and hundreds of other questions are yours in the Ball Red Book. 108 pages, freely illustrated. 20c.

GRAVEL CROPS

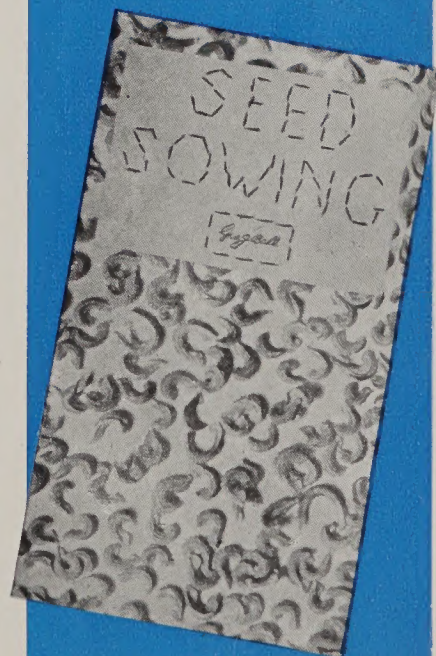
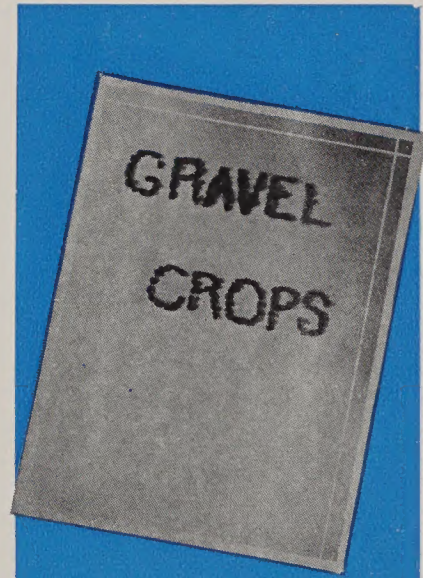
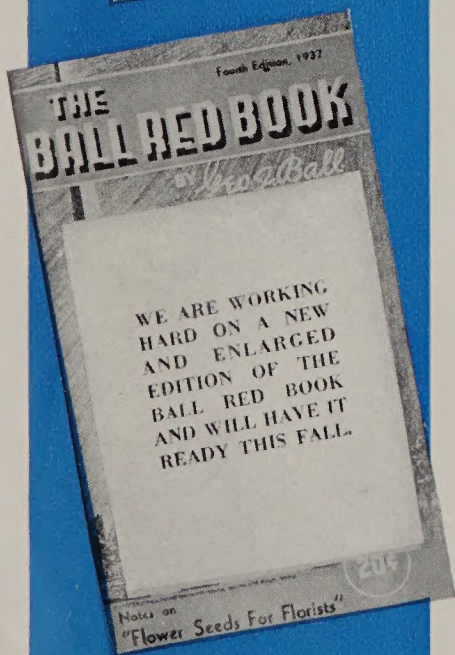
By Vic Ball

Does gravel culture pay? Is it practical for the wholesale grower; the retail grower? If so, how do you go about it? It's all in "Gravel Crops" complete to testing of solutions, formulae, where to get pumps and all. 48 pages, freely illustrated. Price, 10c.

SEED SOWING

By Geo. J. Ball and Geo. Jr.

Practical pointers on germination—the biggest single "Waterloo" of greenhouse crops. Suggestions on soils, covering, etc., together with a most complete table giving number of seeds per ounce, time and temperature requirements for germination and longevity of about 400 florist's species. Gratis.



These four services are the result of years of experience and days of patient effort in preparation. They are written for you, the grower. We invite you to use them!



"Glorious"

Serves as name and description of our last season's introduction in winter snaps. Glorious is a glorified Afterglow.

The 12 Best Snaps

listed on page 4 is based on extensive trials we carried out the past winter, also on varieties most called for by all sections. This should make it of interest. But varying conditions make the longer list necessary.

Demand for good snaps is increasing. The better varieties coming out annually are playing their part in this bettering value. Don't pass them up entirely, for nearly every one sent out makes good. We realize the need of bettering standard kinds. All the seed we grow of them is from single plant selections we make annually, for growing under glass raised beds and moderately enriched soil tend to get away from soft growth that encourages disease, snapping of flower spikes and poorly spaced flowers on the stem.

Grog Ball INC.
WEST CHICAGO
ILLINOIS

"Flower Seeds for Florists"